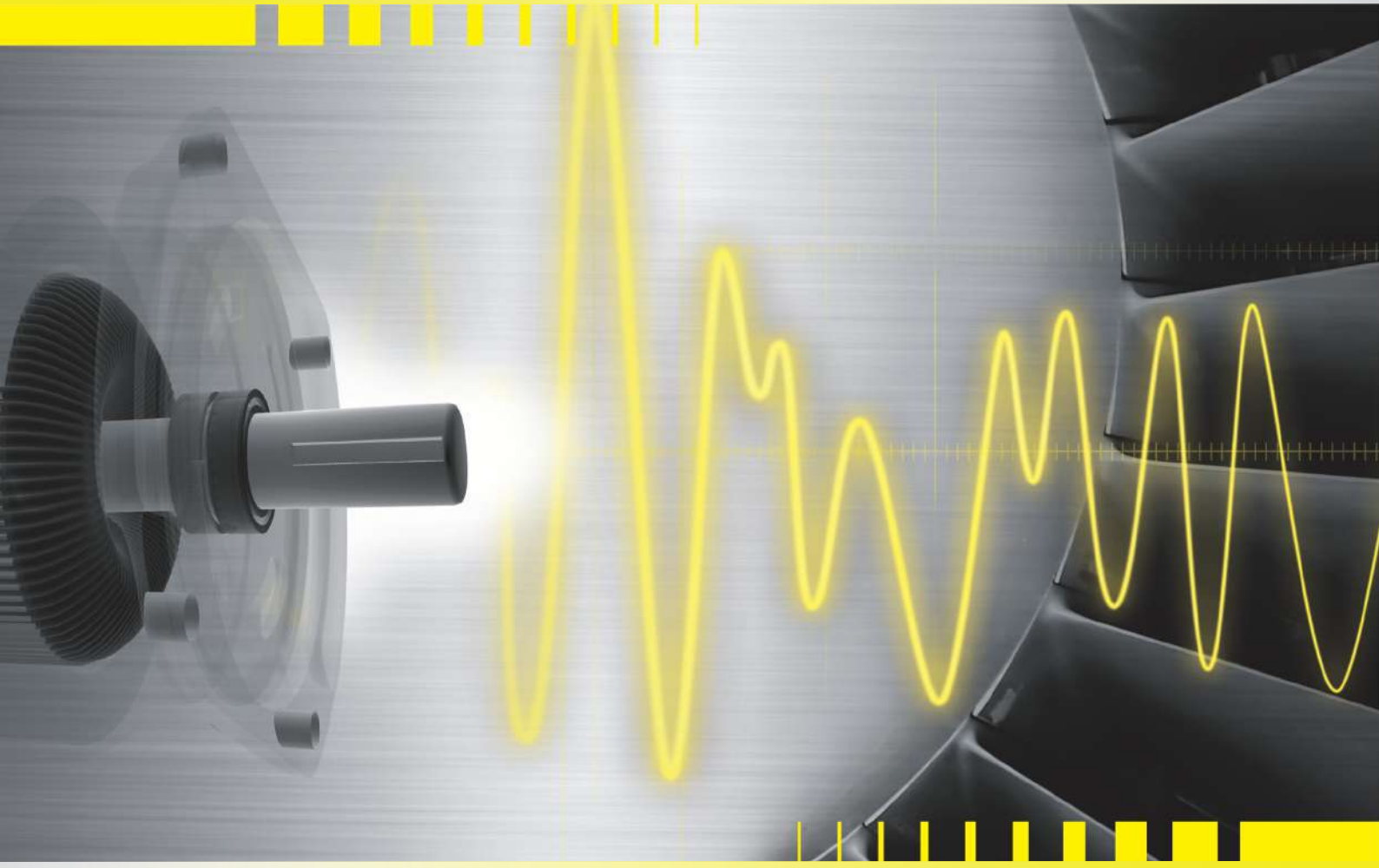
ATB MOTOR CATALOG



WE Series

IE2 & IE3 & IE4

Low-Voltage High Power Three Phase Asynchronous Motor

ATB
Technology in Motion

ATB History

About ATB

The history of ATB Group dates back more than 100 years. Originated in 1919 as electro-technical workshop and started production of electric motors in Stuttgart, Germany.

Today, the head office of ATB Group is located in Austria. The Group ranks among the leading global suppliers of electric drive systems for industrial applications and home appliances.

The ATB Group product range extends from 25W to 25MW and includes standard solutions, customised solutions and design-to-order solutions including complete drive systems for a wide range of applications.

The ATB Group, which includes famous brands such as Schorch, Morley, Laurence & Scott, currently has worldwide manufacturing bases - in Germany, United Kingdom, Austria, Poland, Serbia, China and Vietnam.

ATB History 1919 - Present

1919	Gottlob Bauknecht sets up an electro-technical workshop
1930	Production of electric motors starts in Stuttgart
1932	Gottlob Bauknecht builds a fully sealed electric motor which becomes the prototype for many generations of electric motor
1938	Welzheim plant is acquired and manufacture of electric motors established
1974	The newly constructed small-size motor factory, with a production area of 36,000 m2, is commissioned in Spielberg, Austria
1976	The Spielberg motor factory produces its millionth electric motor. The company's founder, Gottlob Bauknecht, dies and his sons Guenter and Gerhard Bauknecht carry on with the management of the company
1986	ATB shares are listed on the Frankfurt and Stuttgart stock exchange
2012	Company name change of ATB Motorentechnik GmbH, Nordenham and Schorch Elektrische Maschinen und Antriebe GmbH, to: ATB Nordenham GmbH, ATB Schorch GmbH
2012	130th anniversary of SCHORCH
2019	100th anniversary of ATB

Technology in Motion

Full Range Supplier

Applications

- Propulsion
- Winches
- Conveyor Technique
- Heavy Lifting Systems
- Lift Drives
- Compressors
- Pumps
- Agitators
- Extruders
- Mills
- Rolling Mills
- Shredders
- Mining Machinery
- Traction Drives
- Auxiliary Drives
- Machine Tools
- Printing Machines
- Textile Machines
- Test Stands
- Injection Moulding Machines
- High Pressure Cleaners
- Lawn Mowers
- Scarifiers
- Chaff Cutters
- Concrete Mixers
- Ventilators/Blowers

ATB Brands

ATB Laurence & Scott

Production: ATB Laurence Scott Ltd.
Established: 1883
Location: Norwich (United Kingdom)

ATB Morley

Production: ATB Morley Ltd.
Established: 1897
Location: Leeds (United Kingdom)

ATB Sever

Production: ATB Sever
Established: 1923
Location: Subotica (Serbia)

ATB Nordenham GmbH

Production: ATB Nordenham GmbH
Established: 1952
Location: Nordenham (Germany)

ATB Tamel S.A.

Production: ATB Tamel S.A.
Established: 1949
Location: Tarnow (Poland)

ATB Schorch GmbH

Production: ATB Schorch GmbH
Established: 1882
Location: Moenchengladbach (Germany)

Technology in Motion

LV IEC motors

Type of protection: Safe Area
Power range: 0.06kW to 4800kW
Frame size: 56 - 710
Number of poles: 2,4, 6, 8 and more
Efficiency Class: IE2, IE3, IE4
Applications:
Water and vacuum pumps, fans, compressors, drive systems, chemical industry, marine, etc.

LV NEMA motors

Type of protection: Safe Area
Frame size: 56 - 586
Number of poles: 2, 4, 6, 8 and more
Applications:
Water and vacuum pumps, fans, compressors, drive systems, chemical industry, marine, etc.

LV Motors for hazardous atmospheres

Type of protection: Ex ec, Ex eb, Ex db eb, Ex db
Power range: 0.06kW to 2000kW
Frame size: 63-560
Number of poles: 2, 4, 6, 8 and more
Efficiency Class: IE2, IE3, IE4
Applications:
Oil & gas industry, petrochemical industry, wood industry, pumps, fans, compressors, etc.

Smoke extraction motors

Type of protection: Safe Area - 200C, 400C, 600C
Power range: up to 1000 kW
Frame size: 80-500
Number of poles: 4
Applications:
Stairwells, shopping malls, public buildings, tunnels, industrial buildings, enclosed car parks, etc.

Technology in Motion

LV Slip ring motors

Type of protection: Safe Area
Power range: up to 11 00kW
Frame size: 160-560
Number of poles: 2, 4, 6, 8 and more
Applications:
Marine motors, bow thruster drives, compressors for ship industry, etc.

Home appliance motors

Type of protection: Safe Area
Power range: 0.01kWto 5.5kW
Frame size: 45 - 112
Number of poles: 4
Applications:
All types of industrial uses, e.g. pump drives, fans and grain mills, lawn mowers, chopping machines, lawn aerators, concrete mixer, etc.

HV Asynchronous motors

Type of protection: Ex ec, Ex eb, Ex db eb, Ex db
Power range: 0.06kW to 2000kW
Frame size: 63-560
Number of poles: 2, 4, 6, 8 and more
Efficiency Class: IE2, IE3, IE4
Applications:
Oil & gas industry, petrochemical industry, wood industry, pumps, fans, compressors, etc.

HV Synchronous motors

ype of protection: on request
Power range: up to 25MW
Frame size: up to 1400
Number of poles: to suit
Applications:
Conveyor technology, water pump, power generations, compressor, pump drives, shredder, shipbuilding, wood/paper industry, mining, nuclear power generation, oil & gas industry, etc.

ATB Technology in Motion

HV Slip ring motors

Type of protection: Safe Area
Power range: up to 13.2MW
Frame size: 355 to 1120
Number of poles: 2, 4, 6 and more Applications:
Heavy duty pumps, conveyor belt, stone crusher, heavy duty cranes, etc.

HV Motors for hazardous atmospheres

Type of protection: Safe Area
Power range: 0.01kWto 5.5kW
Frame size: 45 - 112
Number of poles: 4
Applications:
All types of industrial uses, e.g. pump drives, fans and grain mills, lawn mowers, chopping machines, lawn aerators, concrete mixer, etc.

Asynchronous generators

Type of protection: Safe Area
Power range: up to 1 0MW
Frame size: up to 1000
Number of poles: 2, 4, 6, 8 and more
Applications: Hydro power plants

Synchronous generators

Type of protection: Safe Area
Power range: up to 1 0MW
Frame size: up to 1700
Number of poles: 4
Applications: Hydro power plants

ATB Technology in Motion

8 Product Description

Nomenclature

WE3 - 160 M1-2 - X

- X: Environmental code
  (Default: indoor; details are as follows:)
  F1: indoor, medium degree of corrosion resistance
  F2: indoor, high degree of corrosion resistance
  WF1: outdoor, medium degree of corrosion resistance
  WF2: outdoor, high degree of corrosion resistance
  TH: -humid tropical regions
  G: plateau
- 160 M1-2: Specification code: 160 represents motor center height is 160mm (or frame size is 160), the housing length is M, the core length is 1, and the pole number is 2.
- WE3: Product code: WE2 series, IE2 high efficiency
  WE3 series, IE3 premium efficiency
  WE4 series, IE4 ultra-high efficiency.

Specification

Specification	Standard product	Option
Frame size	80~355	-
Rated power	0.18~375kW	-
Number of poles	2P, 4P, 6P, 8P	-
Rated voltage	380V	On request
Frequency	50Hz	60 Hz
Duty	S1	S2, S3
Efficiency level	IE2, IE3, IE4	-
Mounting option	B3, B5, B35	B14, B34
Insulation	Class F	Class H
Connection	Below 4kW: "Y" connection 4kW or above: "Δ" connection	-
Thermal protection	-	Thermistors, Thermostats or RTDs
Anti-Condensation heaters	-	110V or 220 to 240V
Enclosure	IP55	IP56, IP65
Cooling type	IC411	IC416, IC418
Frame material	Aluminium: 90 to 160 Cast iron : 80 to 355	-
Terminal box position	Top	Right hand side, left hand side
Located bearing	Drive end	-
Lubrication	80 to 180 Sealed for life bearings	160 to 180 Regreasing
	200 to 355 Regreasing	-
Inverter Duty (with derate)	Variable Torque: 10:1	-
	Constant Torque: 2:1	Alternative speed range
Ambient temperature	-20°C~+40°C	-
Altitude	No more than 1000 m	On request

Cast iron motor-3000 min^{-1} (2 pole)

Type			I_N				h			cos Φ			$\frac{M_A}{M_N}$	$\frac{I_A}{I_N}$	$\frac{M_K}{M_N}$					
Frame reference and size	Efficiency level	Rated power	Full load current at rated voltage			Rated speed	Efficiency			Power Factor			Direct on line starting torque ratio	Direct on line starting current ratio	Direct on line pull out torque ratio	Weight	Noise		Moment of inertia	Full load torque
		kW	I_N380V	I_N400V	I_N415V	r/min	50%	75%	100%	50%	75%	100%				kg	$\frac{L_{PA}}{dB[A]}$	$\frac{L_{WA}}{dB[A]}$	kg•m^2	M_N Nm
WE4-80M1-2	IE4	0.75	1.64	1.56	1.51	2875	83.2	83.3	**83.5**	0.74	0.80	**0.83**	2.2	8.5	2.3	18	50	62	0.001	2.49
WE4-80M2-2	IE4	1.1	2.36	2.25	2.16	2885	84.9	85.5	**85.2**	0.74	0.80	**0.83**	2.2	8.5	2.3	19	50	62	0.0014	3.64
WE4-90S-2	IE4	1.5	3.1	2.94	2.84	2890	86.2	87.1	**86.5**	0.75	0.82	**0.85**	2.2	9.0	2.3	26	55	67	0.0015	4.96
WE4-90L-2	IE4	2.2	4.42	4.2	4.04	2895	87.7	88.4	**88.0**	0.76	0.83	**0.86**	2.2	9.0	2.3	30	55	67	0.0017	7.3
WE4-100L-2	IE4	3	5.9	5.6	5.4	2900	88.8	89.7	**89.1**	0.79	0.84	**0.87**	2.2	9.5	2.3	38	62	74	0.0055	9.9
WE4-112M-2	IE4	4	7.7	7.3	7	2915	89.7	90.6	**90.0**	0.79	0.86	**0.88**	2.2	9.5	2.3	51	65	77	0.0075	13.1
WE4-132S1-2	IE4	5.5	10.4	9.9	9.6	2925	90.6	91.2	**90.9**	0.79	0.86	**0.88**	2.0	9.5	2.3	73	67	79	0.015	18
WE4-132S2-2	IE4	7.5	14	13.3	12.8	2925	91.4	92.3	**91.7**	0.80	0.86	**0.89**	2.0	9.5	2.3	80	67	79	0.019	24.5
WE4-160M1-2	IE4	11	20.3	19.3	18.6	2940	92.3	92.9	**92.6**	0.79	0.86	**0.89**	2.0	9.5	2.3	132	68	81	0.05	35.7
WE4-160M2-2	IE4	15	27.4	26.1	25.1	2940	92.9	93.5	**93.3**	0.79	0.86	**0.89**	2.0	9.5	2.3	140	68	81	0.059	48.7
WE4-160L-2	IE4	18.5	33.7	32	30.9	2940	93.4	94.1	**93.7**	0.81	0.87	**0.89**	2.0	9.5	2.3	155	68	81	0.069	60
WE4-180M-2	IE4	22	40	38	36.6	2945	93.7	94.3	**94.0**	0.81	0.87	**0.89**	2.0	9.5	2.3	195	70	83	0.1	71
WE4-200L1-2	IE4	30	54	51	49.6	2970	94.1	94.3	**94.5**	0.82	0.87	**0.89**	2.0	9.0	2.3	256	71	84	0.2	96
WE4-200L2-2	IE4	37	67	63	61	2970	94.2	94.7	**94.8**	0.82	0.86	**0.89**	2.0	9.0	2.3	285	71	84	0.24	119
WE4-225M-2	IE4	45	81	77	74	2970	94.6	94.9	**95.0**	0.83	0.87	**0.89**	2.0	9.0	2.3	345	73	86	0.39	145
WE4-250M-2	IE4	55	99	94	90	2970	94.9	95.3	**95.3**	0.83	0.87	**0.89**	2.0	9.0	2.3	450	75	89	0.49	177
WE4-280S-2	IE4	75	134	127	123	2980	95.3	95.6	**95.6**	0.83	0.88	**0.89**	1.8	8.5	2.3	588	77	91	0.86	240
WE4-280M-2	IE4	90	160	152	147	2980	95.5	95.8	**95.8**	0.84	0.88	**0.89**	1.8	8.5	2.3	660	77	91	1.1	288
WE4-315S-2	IE4	110	196	186	179	2985	95.7	96.0	**96.0**	0.84	0.88	**0.89**	1.8	8.5	2.3	960	78	92	1.5	352
WE4-315M-2	IE4	132	234	223	214	2985	95.9	96.2	**96.2**	0.84	0.88	**0.89**	1.8	8.5	2.3	1060	78	92	1.6	422
WE4-315L1-2	IE4	160	284	269	260	2985	96.0	96.3	**96.3**	0.85	0.88	**0.89**	1.8	8.5	2.2	1185	78	92	2.1	512
WE4-315L2-2	IE4	185	328	311	300	2985	96.1	96.4	**96.4**	0.85	0.88	**0.89**	1.8	8.5	2.2	1320	78	92	2.3	592
WE4-315L3-2	IE4	200	354	336	324	2985	96.2	96.5	**96.5**	0.85	0.88	**0.89**	1.8	8.5	2.2	1320	78	92	2.5	640
WE4-355M1-2	IE4	220	381	362	349	2990	96.2	96.5	**96.5**	0.87	0.89	**0.91**	1.6	8.5	2.2	1870	85	100	4.2	703
WE4-355M2-2	IE4	250	433	411	396	2990	96.2	96.5	**96.5**	0.88	0.89	**0.91**	1.6	8.5	2.2	1950	85	100	4.9	798
WE4-355L1-2	IE4	280	484	460	444	2990	96.2	96.5	**96.5**	0.88	0.89	**0.91**	1.6	8.5	2.2	2080	85	100	4.7	894
WE4-355L2-2	IE4	315	545	518	499	2990	96.2	96.5	**96.5**	0.88	0.89	**0.91**	1.6	8.5	2.2	2100	85	100	6	1006
WE4-3551-2	IE4	355	614	583	562	2990	96.2	96.5	**96.5**	0.88	0.89	**0.91**	0.9	8.6	1.8	2220	89	104	6.8	1134

Cast iron motor-1500 min^{-1} (4 pole)

Type	Efficiency level	Rated power	I_N			Rated speed	η			cos Φ			$\frac{M_A}{M_N}$	$\frac{I_A}{I_N}$	$\frac{M_K}{M_N}$	Weight	Noise		Moment of inertia	Full load torque
		kW	I_N380V	I_N400V	I_N415V	r/min	50%	75%	100%	50%	75%	100%				kg	$\frac{L_{PA}}{dB[A]}$	$\frac{L_{WA}}{dB[A]}$	kg•m^2	$\frac{M_N}{Nm}$
WE4-80M1-4	IE4	0.55	1.35	1.28	1.23	1425	82.8	84.2	**83.9**	0.55	0.67	**0.74**	2.4	9.8	2.2	18	44	56	0.002	3.69
WE4-80M2-4	IE4	0.75	1.8	1.71	1.65	1425	84.5	86.1	**85.7**	0.55	0.67	**0.74**	2.3	8.5	2.3	20	44	56	0.0026	5
WE4-90S-4	IE4	1.1	2.56	2.43	2.34	1430	86.5	87.6	**87.2**	0.56	0.69	**0.75**	2.3	8.5	2.3	25	47	59	0.0037	7.3
WE4-90L-4	IE4	1.5	3.31	3.15	3.03	1430	87.5	88.5	**88.2**	0.60	0.72	**0.78**	2.3	9.0	2.3	30	47	59	0.0047	10
WE4-100L1-4	IE4	2.2	4.73	4.49	4.33	1435	89.2	89.7	**89.5**	0.62	0.73	**0.79**	2.3	9.0	2.3	38	52	64	0.011	14.6
WE4-100L2-4	IE4	3	6.3	6	5.8	1440	90.1	90.7	**90.4**	0.63	0.74	**0.80**	2.3	9.5	2.3	42	52	64	0.015	19.9
WE4-112M-4	IE4	4	8.3	7.9	7.6	1450	90.8	91.4	**91.1**	0.67	0.75	**0.80**	2.2	9.5	2.3	55	53	65	0.022	26.3
WE4-132S-4	IE4	5.5	11.4	10.8	10.4	1460	91.6	92.1	**91.9**	0.67	0.77	**0.80**	2.0	9.5	2.3	77	59	71	0.035	36
WE4-132M-4	IE4	7.5	15.2	14.4	13.9	1460	92.3	92.9	**92.6**	0.69	0.79	**0.81**	2.0	9.5	2.3	82	59	71	0.04	49.1
WE4-160M-4	IE4	11	21.6	20.5	19.8	1470	93.0	93.5	**93.3**	0.71	0.81	**0.83**	2.2	9.5	2.3	136	60	73	0.098	71
WE4-160L-4	IE4	15	28.9	27.4	26.5	1470	93.6	94.2	**93.9**	0.73	0.81	**0.84**	2.2	9.5	2.3	155	60	73	0.12	97
WE4-180M-4	IE4	18.5	35.1	33.3	32.1	1475	93.9	94.5	**94.2**	0.75	0.82	**0.85**	2.0	9.5	2.3	190	63	76	0.19	120
WE4-180L-4	IE4	22	41.6	39.5	38.1	1475	94.2	94.5	**94.5**	0.75	0.82	**0.85**	2.0	9.5	2.3	210	63	76	0.22	142
WE4-200L-4	IE4	30	57	54	52	1475	94.5	94.9	**94.9**	0.76	0.82	**0.85**	2.0	9.0	2.3	285	63	76	0.46	194
WE4-225S-4	IE4	37	69	66	64	1480	94.7	95.2	**95.2**	0.77	0.82	**0.85**	2.0	9.0	2.3	350	65	78	0.5	239
WE4-225M-4	IE4	45	84	80	77	1480	94.9	95.4	**95.4**	0.76	0.83	**0.85**	2.0	9.0	2.3	385	65	78	0.58	290
WE4-250M-4	IE4	55	102	96	93	1480	95.2	95.7	**95.7**	0.78	0.84	**0.86**	2.0	9.0	2.3	510	65	79	0.92	355
WE4-280S-4	IE4	75	136	130	125	1485	95.7	96.0	**96.0**	0.78	0.85	**0.87**	2.0	8.5	2.3	631	66	80	1.5	482
WE4-280M-4	IE4	90	162	154	148	1485	95.8	96.1	**96.1**	0.79	0.86	**0.88**	2.0	8.5	2.3	716	66	80	1.8	579
WE4-315S-4	IE4	110	195	185	179	1490	96.0	96.3	**96.3**	0.79	0.86	**0.89**	2.0	8.5	2.2	1010	74	88	3.1	705
WE4-315M-4	IE4	132	234	222	214	1490	96.1	96.4	**96.4**	0.80	0.87	**0.89**	2.0	8.5	2.2	1080	74	88	3.4	846
WE4-315L1-4	IE4	160	280	266	256	1490	96.3	96.6	**96.6**	0.85	0.87	**0.90**	2.0	8.5	2.2	1160	74	88	4.1	1026
WE4-315L2-4	IE4	185	323	307	296	1490	96.4	96.7	**96.7**	0.85	0.87	**0.90**	2.0	8.5	2.2	1275	74	88	5.3	1186
WE4-315L3-4	IE4	200	349	332	320	1490	96.4	96.7	**96.7**	0.86	0.88	**0.90**	2.0	8.5	2.2	1275	74	88	5.4	1282
WE4-355M1-4	IE4	220	384	365	352	1495	96.4	96.7	**96.7**	0.85	0.87	**0.90**	2.0	8.5	2.2	1850	80	95	9.3	1405
WE4-355M2-4	IE4	250	436	415	400	1495	96.4	96.7	**96.7**	0.86	0.88	**0.90**	2.0	8.5	2.2	1850	80	95	9.5	1597
WE4-355L1-4	IE4	280	489	464	448	1495	96.5	96.7	**96.7**	0.86	0.88	**0.90**	2.0	8.5	2.2	2040	80	95	11	1789
WE4-355L2-4	IE4	315	550	522	504	1495	96.5	96.7	**96.7**	0.86	0.88	**0.90**	2.0	8.5	2.2	2040	80	95	11	2012
WE4-3551-4	IE4	355	620	589	567	1495	96.5	96.7	**96.7**	0.86	0.88	**0.90**	1.7	8.5	2.2	2100	87	102	12	2268

Cast iron motor-1000 min^{-1} (6 pole)

Type	Efficiency level	Rated power	I_N			Rated speed	h			cos Φ			Direct on line starting torque ratio	Direct on line starting current ratio	Direct on line pull out torque ratio	Weight	Noise		Moment of inertia	Full load torque
		kW	I_N380V	I_N400V	I_N415V	r/min	50%	75%	100%	50%	75%	100%	$\frac{M_A}{M_N}$	$\frac{I_A}{I_N}$	$\frac{M_K}{M_N}$	kg	L_{PA} dB(A)	L_{WA} dB(A)	kg•m^2	M_N Nm
WE4-80M1-6	IE4	0.37	1.06	1.01	0.97	930	77.1	78.8	**78.0**	0.49	0.61	**0.68**	2.0	9.7	2.1	17	42	54	0.0023	3.8
WE4-80M2-6	IE4	0.55	1.48	1.4	1.35	930	80.3	81.7	**80.9**	0.51	0.63	**0.70**	2.0	9.0	2.1	20	42	54	0.0036	5.6
WE4-90S-6	IE4	0.75	1.97	1.87	1.8	940	82.4	83.5	**82.7**	0.51	0.63	**0.70**	2.0	7.5	2.1	29	42	57	0.0061	7.6
WE4-90L-6	IE4	1.1	2.83	2.68	2.59	945	84.1	85.3	**84.5**	0.52	0.64	**0.70**	2.0	7.5	2.1	34	45	57	0.0079	11.1
WE4-100L-6	IE4	1.5	3.74	3.55	3.42	950	84.9	86.7	**85.9**	0.56	0.66	**0.71**	2.0	7.5	2.1	42	49	61	0.014	15.1
WE4-112M-6	IE4	2.2	5.4	5.1	4.93	950	86.7	88.2	**87.4**	0.56	0.66	**0.71**	2.0	7.5	2.1	51	53	65	0.023	22.1
WE4-132S-6	IE4	3	7.2	6.9	6.6	960	88.2	88.9	**88.6**	0.57	0.66	**0.71**	2.0	7.5	2.1	70	57	69	0.029	29.8
WE4-132M1-6	IE4	4	9.4	9	8.6	960	88.9	89.8	**89.5**	0.59	0.67	**0.72**	2.0	8.0	2.1	78	57	69	0.038	39.8
WE4-132M2-6	IE4	5.5	12.8	12.2	11.7	965	89.7	90.8	**90.5**	0.59	0.67	**0.72**	2.0	8.0	2.1	85	57	69	0.054	54
WE4-160M-6	IE4	7.5	16.4	15.6	15	970	90.8	91.6	**91.3**	0.61	0.72	**0.76**	2.0	8.0	2.1	136	60	73	0.13	74
WE4-160L-6	IE4	11	23.5	22.3	21.5	970	91.7	92.4	**92.3**	0.62	0.73	**0.77**	2.0	8.5	2.1	156	60	73	0.19	108
WE4-180L-6	IE4	15	30.7	29.1	28.1	975	92.3	92.9	**92.9**	0.68	0.76	**0.80**	2.0	8.5	2.1	210	60	73	0.3	147
WE4-200L1-6	IE4	18.5	37.6	35.7	34.4	980	92.9	93.4	**93.4**	0.68	0.76	**0.80**	2.0	8.5	2.1	230	60	73	0.4	180
WE4-200L2-6	IE4	22	44	41.8	40.3	980	93.2	93.7	**93.7**	0.70	0.77	**0.81**	2.0	8.5	2.1	260	60	73	0.52	214
WE4-225M-6	IE4	30	59	56	54	980	93.7	94.2	**94.2**	0.71	0.81	**0.82**	2.0	8.3	2.1	340	61	74	1.1	292
WE4-250M-6	IE4	37	72	68	66	985	93.9	94.5	**94.5**	0.71	0.81	**0.83**	2.0	8.3	2.1	445	62	76	1.4	359
WE4-280S-6	IE4	45	87	83	80	985	93.9	94.8	**94.8**	0.72	0.81	**0.83**	2.0	8.5	2.0	595	64	78	2.8	436
WE4-280M-6	IE4	55	105	99	96	985	94.2	95.1	**95.1**	0.73	0.81	**0.84**	2.0	8.5	2.0	645	64	78	3.5	533
WE4-315S-6	IE4	75	142	135	130	990	94.7	95.4	**95.4**	0.74	0.81	**0.84**	1.6	8.0	2.0	985	69	83	3.8	723
WE4-315M-6	IE4	90	168	160	154	990	94.9	95.6	**95.6**	0.74	0.81	**0.85**	1.6	8.0	2.0	1100	69	83	4.5	868
WE4-315L1-6	IE4	110	205	195	188	990	94.9	95.8	**95.8**	0.74	0.81	**0.85**	1.6	8.0	2.0	1180	69	83	5.5	1061
WE4-315L2-6	IE4	132	243	231	222	990	95.1	96.0	**96.0**	0.74	0.83	**0.86**	1.6	8.0	2.0	1310	69	83	6.5	1273
WE4-355M1-6	IE4	160	294	279	269	995	95.7	96.2	**96.2**	0.76	0.84	**0.86**	1.6	8.0	2.0	1840	70	85	10	1536
WE4-355M2-6	IE4	185	339	322	311	995	95.8	96.3	**96.3**	0.76	0.84	**0.86**	1.6	8.0	2.0	2030	70	85	13	1776
WE4-355M3-6	IE4	200	367	349	336	995	95.8	96.3	96.3	0.76	0.84	0.86	1.6	8.0	2.0	2030	70	85	13	1920
WE4-355L1-6	IE4	220	399	379	365	995	95.9	96.4	96.4	0.82	0.85	0.87	1.6	8.0	2.0	2240	76	85	14	2112
WE4-355L2-6	IE4	250	458	435	419	995	96.0	96.5	96.5	0.82	0.85	0.86	1.6	8.0	2.0	2240	76	85	15	2399
WE4-3551-6	IE4	280	538	511	492	995	96.0	96.5	96.5	0.70	0.77	0.82	1.6	8.0	2.0	2345	76	91	16	2687

Cast iron motor-750 min^{-1} (8 pole)

Type	Efficiency level	Rated power	Full load current at rated voltage			Rated speed	Efficiency			Power Factor			Direct on line starting torque ratio	Direct on line starting current ratio	Direct on line pull out torque ratio	Weight	Noise		Moment of inertia	Full load torque
			I_N				h			cos Φ										
		kW	I_N380V	I_N400V	I_N415V	r/min	50%	75%	100%	50%	75%	100%	$\frac{M_A}{M_N}$	$\frac{I_A}{I_N}$	$\frac{M_K}{M_N}$	kg	L_{PA} dB[A]	L_{WA} dB[A]	kg•m^2	M_N Nm
WE4-80M1-8	IE4	0.18	0.67	0.63	0.61	695	64.7	66.4	**67.2**	0.43	0.54	**0.61**	2.0	7.5	1.9	15	40	52	0.0021	2.47
WE4-80M2-8	IE4	0.25	0.88	0.84	0.81	695	68.3	70.0	**70.8**	0.43	0.54	**0.61**	2.0	7.9	1.9	17	40	52	0.0023	3.44
WE4-90S-8	IE4	0.37	1.24	1.18	1.14	700	71.8	73.4	**74.3**	0.44	0.55	**0.61**	2.0	8.3	1.9	27	44	56	0.0062	5
WE4-90L-8	IE4	0.55	1.78	1.69	1.63	700	74.5	76.1	**77.0**	0.44	0.55	**0.61**	2.0	7.4	2.0	30	44	56	0.0081	7.5
WE4-100L1-8	IE4	0.75	2.2	2.09	2.02	710	75.9	86.2	**78.4**	0.49	0.60	**0.66**	2.0	7.0	2.0	36	47	59	0.011	10.1
WE4-100L2-8	IE4	1.1	3.09	2.93	2.83	710	78.3	81.8	**80.8**	0.50	0.61	**0.67**	2.0	7.0	2.0	40	47	59	0.012	14.8
WE4-112M-8	IE4	1.5	4	3.8	3.66	710	81.4	83.5	**82.6**	0.52	0.63	**0.69**	2.0	7.0	2.0	47	49	61	0.022	20.2
WE4-132S-8	IE4	2.2	5.7	5.4	5.2	720	83.3	85.3	**84.5**	0.54	0.64	**0.70**	1.8	7.5	2.0	62	52	64	0.027	29.2
WE4-132M-8	IE4	3	7.6	7.2	6.9	720	84.7	86.7	**85.9**	0.54	0.64	**0.70**	1.8	7.8	2.0	73	52	64	0.03	39.8
WE4-160M1-8	IE4	4	9.8	9.3	9	730	86.0	87.5	**87.1**	0.56	0.65	**0.71**	1.8	7.9	2.0	115	55	68	0.12	52
WE4-160M2-8	IE4	5.5	13.1	12.5	12	730	87.4	88.7	**88.3**	0.57	0.66	**0.72**	1.8	8.1	2.0	126	55	68	0.13	72
WE4-160L-8	IE4	7.5	17.2	16.4	15.8	730	88.4	89.7	**89.3**	0.59	0.67	**0.74**	1.8	7.8	2.0	148	55	68	0.18	98
WE4-180L-8	IE4	11	25	23.7	22.9	735	89.5	90.4	**90.4**	0.59	0.67	**0.74**	1.8	7.9	2.0	195	57	70	0.28	143
WE4-200L-8	IE4	15	33.3	31.7	30.5	735	90.1	91.2	**91.2**	0.61	0.70	**0.75**	1.8	8.0	2.0	245	60	73	0.42	195
WE4-225S-8	IE4	18.5	40.9	38.8	37.4	740	90.6	91.7	**91.7**	0.61	0.70	**0.75**	1.8	8.1	2.0	285	60	73	0.55	239
WE4-225M-8	IE4	22	47.8	45.4	43.7	740	91.1	92.1	**92.1**	0.62	0.71	**0.76**	1.8	8.3	2.0	325	60	73	1	284
WE4-250M-8	IE4	30	64	61	58	740	91.6	92.7	**92.7**	0.64	0.72	**0.77**	1.8	7.9	2.0	420	61	75	1.4	387
WE4-280S-8	IE4	37	77	74	71	740	92.1	93.1	**93.1**	0.64	0.73	**0.78**	1.8	7.9	2.0	550	62	76	2.8	478
WE4-280M-8	IE4	45	94	89	86	740	92.3	93.4	**93.4**	0.65	0.73	**0.78**	1.8	7.9	2.0	605	62	76	3.5	581
WE4-315S-8	IE4	55	111	106	102	745	92.8	93.7	**93.7**	0.69	0.75	**0.80**	1.6	8.2	2.0	960	68	82	3.6	705
WE4-315M-8	IE4	75	151	144	138	745	93.3	94.2	**94.2**	0.69	0.75	**0.80**	1.6	7.6	2.0	1040	68	82	4.4	961
WE4-315L1-8	IE4	90	179	170	164	745	93.3	94.4	**94.4**	0.71	0.77	**0.81**	1.6	7.7	2.0	1160	68	82	5.4	1154
WE4-315L2-8	IE4	110	218	207	200	745	93.6	94.7	**94.7**	0.71	0.77	**0.81**	1.6	7.7	2.0	1280	68	82	6	1410
WE4-355M1-8	IE4	132	261	248	239	745	93.8	94.9	**94.9**	0.72	0.78	**0.81**	1.6	7.7	2.0	1820	75	90	10	1692
WE4-355M2-8	IE4	160	312	296	285	745	94.1	95.1	**95.1**	0.74	0.80	**0.82**	1.6	7.7	2.0	1960	75	90	13	2051
WE4-355L-8	IE4	200	388	369	356	745	94.3	95.4	**95.4**	0.74	0.80	**0.82**	1.6	7.8	2.0	2105	75	90	13	2564

Cast iron motor-3000 min^{-1} (2 pole)

Type	Efficiency level	Rated power	I_N			Rated speed	η			cos Φ			Direct on line starting torque ratio	Direct on line starting current ratio	Direct on line pull out torque ratio	Weight	Noise		Moment of inertia	Full load torque
		kW	I_N380V	I_N400V	I_N415V	r/min	50%	75%	100%	50%	75%	100%	$\frac{M_A}{M_N}$	$\frac{I_A}{I_N}$	$\frac{M_K}{M_N}$	kg	L_{PA} dB[A]	L_{WA} dB[A]	kg•m^2	M_N Nm
WE3-80M1-2	IE3	0.75	1.72	1.64	1.58	2860	79.3	81.1	**80.7**	0.73	0.79	**0.82**	2.3	7.0	2.3	14	50	62	0.00099	2.5
WE3-80M2-2	IE3	1.1	2.43	2.31	2.23	2880	79.6	82.5	**82.7**	0.73	0.76	**0.83**	2.2	7.3	2.3	15	50	62	0.0013	3.65
WE3-90S-2	IE3	1.5	3.22	3.06	2.95	2885	84.1	84.9	**84.2**	0.74	0.81	**0.84**	2.2	7.6	2.3	23	55	67	0.0014	4.97
WE3-90L-2	IE3	2.2	4.58	4.35	4.19	2870	85.8	86.5	**85.9**	0.74	0.82	**0.85**	2.2	7.6	2.3	26	55	67	0.0016	7.3
WE3-100L-2	IE3	3	6	5.7	5.5	2900	86.2	87.4	**87.1**	0.79	0.84	**0.87**	2.2	7.8	2.3	37	62	74	0.0053	9.9
WE3-112M-2	IE3	4	7.8	7.4	7.2	2900	88.7	89.2	**88.1**	0.78	0.85	**0.88**	2.2	8.3	2.3	41	65	77	0.0069	13.2
WE3-132S1-2	IE3	5.5	10.6	10.1	9.7	2920	88.9	89.6	**89.2**	0.78	0.85	**0.88**	2.0	8.3	2.3	59	67	79	0.014	18
WE3-132S2-2	IE3	7.5	14.4	13.7	13.2	2905	89.9	90.6	**90.1**	0.79	0.85	**0.88**	2.0	7.9	2.3	67	67	79	0.018	24.7
WE3-160M1-2	IE3	11	20.6	19.6	18.9	2940	89.9	91.1	**91.2**	0.78	0.86	**0.89**	2.0	8.1	2.3	117	68	81	0.046	35.7
WE3-160M2-2	IE3	15	27.9	26.5	25.5	2930	91.3	92.1	**91.9**	0.79	0.86	**0.89**	2.0	8.1	2.3	122	68	81	0.053	48.9
WE3-160L-2	IE3	18.5	34.2	32.5	31.3	2930	92.2	92.7	**92.4**	0.81	0.87	**0.89**	2.0	8.2	2.3	134	68	81	0.063	60
WE3-180M-2	IE3	22	40.5	38.5	37.1	2945	92.1	92.9	**92.7**	0.81	0.87	**0.89**	2.0	8.2	2.3	168	70	83	0.092	71
WE3-200L1-2	IE3	30	55	52	50	2970	91.3	92.9	**93.3**	0.80	0.87	**0.89**	2.0	7.6	2.3	253	71	84	0.18	96
WE3-200L2-2	IE3	37	67	64	62	2970	91.8	93.3	**93.7**	0.78	0.86	**0.89**	2.0	7.6	2.3	271	71	84	0.22	119
WE3-225M-2	IE3	45	81	77	74	2970	92.4	94.0	**94.0**	0.83	0.88	**0.90**	2.0	7.7	2.3	323	73	86	0.36	145
WE3-250M-2	IE3	55	98	94	90	2970	93.0	94.3	**94.3**	0.78	0.86	**0.90**	2.0	7.7	2.3	417	75	89	0.45	177
WE3-280S-2	IE3	75	134	127	122	2980	93.5	94.7	**94.7**	0.83	0.87	**0.90**	1.8	7.1	2.3	530	77	91	0.82	240
WE3-280M-2	IE3	90	160	152	146	2980	93.3	95.0	**95.0**	0.80	0.87	**0.90**	1.8	7.1	2.3	665	77	91	1	288
WE3-315S-2	IE3	110	195	185	179	2985	93.8	95.2	**95.2**	0.86	0.89	**0.90**	1.8	7.1	2.3	944	78	92	1.4	352
WE3-315M-2	IE3	132	234	222	214	2985	94.0	95.4	**95.4**	0.84	0.87	**0.90**	1.8	7.1	2.3	1054	78	92	1.5	422
WE3-315L1-2	IE3	160	279	265	256	2985	94.7	95.6	**95.6**	0.85	0.88	**0.91**	1.8	7.2	2.3	1149	78	92	2	512
WE3-315L2-2	IE3	185	323	307	296	2985	94.6	95.7	**95.7**	0.86	0.88	**0.91**	1.8	7.2	2.2	1209	78	92	2.2	592
WE3-315L3-2	IE3	200	349	331	319	2985	95.2	95.8	**95.8**	0.87	0.89	**0.91**	1.8	7.2	2.2	1249	78	92	2.4	640
WE3-355M1-2	IE3	220	383	364	351	2990	95.5	95.8	**95.8**	0.87	0.89	**0.91**	1.6	7.2	2.2	1699	85	100	4	703
WE3-355M2-2	IE3	250	436	414	399	2990	95.4	95.8	**95.8**	0.88	0.89	**0.91**	1.6	7.2	2.2	1716	85	100	4.7	798
WE3-355L1-2	IE3	280	488	464	447	2990	94.8	95.8	**95.8**	0.88	0.89	**0.91**	1.6	7.2	2.2	2068	85	100	4.3	894
WE3-355L2-2	IE3	315	549	522	503	2990	95.3	95.8	**95.8**	0.88	0.89	**0.91**	1.6	7.2	2.2	2091	85	100	5.7	1006
WE3-3551-2	IE3	355	619	588	567	2990	95.3	95.8	**95.8**	0.88	0.89	**0.91**	1.6	7.2	2.2	2406	89	104	6.5	1134
WE3-3552-2	IE3	375	654	621	598	2990	95.3	95.8	**95.8**	0.88	0.89	**0.91**	1.6	7.2	2.2	2419	89	104	6.5	1198

Cast iron motor-1500 min^{-1} (4 pole)

Type	Efficiency level	Rated power	Full load current at rated voltage I_N			Rated speed	Efficiency h			Power Factor cos Φ			Direct on line starting torque ratio $\frac{M_A}{M_N}$	Direct on line starting current ratio $\frac{I_A}{I_N}$	Direct on line pull out torque ratio $\frac{M_K}{M_N}$	Weight	Noise		Moment of inertia	Full load torque
		kW	I_N380V	I_N400V	I_N415V	r/min	50%	75%	100%	50%	75%	100%				kg	$\frac{L_{PA}}{dB[A]}$	$\frac{L_{WA}}{dB[A]}$	kg•m^2	$\frac{M_N}{Nm}$
WE3-80M1-4	IE3	0.55	1.38	1.31	1.26	1425	77.9	80.8	**80.8**	0.57	0.68	**0.75**	2.3	6.6	2.3	18	44	56	0.0018	3.69
WE3-80M2-4	IE3	0.75	1.84	1.75	1.69	1425	79.6	82.4	**82.5**	0.57	0.69	**0.75**	2.3	6.6	2.3	19	44	56	0.0023	5
WE3-90S-4	IE3	1.1	2.61	2.48	2.39	1430	83.2	84.6	**84.1**	0.56	0.69	**0.76**	2.3	6.8	2.3	23	47	59	0.0034	7.3
WE3-90L-4	IE3	1.5	3.47	3.3	3.18	1425	84.7	85.8	**85.3**	0.58	0.70	**0.77**	2.3	7.0	2.3	26	47	59	0.0043	10.1
WE3-100L1-4	IE3	2.2	4.76	4.52	4.36	1445	84.8	86.8	**86.7**	0.64	0.75	**0.81**	2.3	7.6	2.3	38	52	64	0.01	14.5
WE3-100L2-4	IE3	3	6.3	6	5.8	1420	85.7	87.7	**87.7**	0.65	0.76	**0.82**	2.3	7.6	2.3	43	52	64	0.014	20.2
WE3-112M-4	IE3	4	8.4	7.9	7.7	1450	88.5	89.2	**88.6**	0.69	0.78	**0.82**	2.2	7.8	2.3	48	53	65	0.02	26.3
WE3-132S-4	IE3	5.5	11.2	10.7	10.3	1460	89.3	90.0	**89.6**	0.67	0.77	**0.83**	2.0	7.9	2.3	69	59	71	0.032	36
WE3-132M-4	IE3	7.5	15	14.3	13.7	1445	90.9	91.2	**90.4**	0.70	0.80	**0.84**	2.0	7.5	2.3	77	59	71	0.036	49.6
WE3-160M-4	IE3	11	21.5	20.4	19.7	1470	90.7	91.6	**91.4**	0.70	0.80	**0.85**	2.2	7.7	2.3	120	60	73	0.089	71
WE3-160L-4	IE3	15	28.8	27.3	26.3	1470	92.0	92.5	**92.1**	0.74	0.82	**0.86**	2.2	7.8	2.3	133	60	73	0.11	97
WE3-180M-4	IE3	18.5	35.3	33.5	32.3	1475	92.0	92.8	**92.6**	0.71	0.81	**0.86**	2.0	7.8	2.3	172	63	76	0.17	120
WE3-180L-4	IE3	22	41.8	39.7	38.3	1475	92.2	93.0	**93.0**	0.72	0.82	**0.86**	2.0	7.8	2.3	195	63	76	0.2	142
WE3-200L-4	IE3	30	57	54	52	1475	92.7	93.6	**93.6**	0.76	0.83	**0.86**	2.0	7.3	2.3	268	63	76	0.42	194
WE3-225S-4	IE3	37	70	66	64	1480	92.4	93.9	**93.9**	0.74	0.82	**0.86**	2.0	7.4	2.3	299	65	78	0.46	239
WE3-225M-4	IE3	45	84	80	77	1480	92.8	94.2	**94.2**	0.75	0.82	**0.86**	2.0	7.4	2.3	337	65	78	0.53	290
WE3-250M-4	IE3	55	103	98	94	1480	93.0	94.6	**94.6**	0.77	0.82	**0.86**	2.2	7.4	2.3	432	65	79	0.84	355
WE3-280S-4	IE3	75	136	129	125	1485	93.3	95.0	**95.0**	0.78	0.85	**0.88**	2.0	6.9	2.3	576	66	80	1.5	482
WE3-280M-4	IE3	90	163	155	149	1485	93.6	95.2	**95.2**	0.76	0.83	**0.88**	2.0	6.9	2.3	661	66	80	1.8	579
WE3-315S-4	IE3	110	197	187	180	1490	93.6	95.4	**95.4**	0.82	0.86	**0.89**	2.0	7.0	2.2	982	74	88	2.9	705
WE3-315M-4	IE3	132	236	224	216	1490	94.8	95.6	**95.6**	0.82	0.87	**0.89**	2.0	7.0	2.2	1015	74	88	3.3	846
WE3-315L1-4	IE3	160	285	271	261	1490	95.2	95.8	**95.8**	0.84	0.86	**0.89**	2.0	7.1	2.2	1050	74	88	3.9	1026
WE3-315L2-4	IE3	185	329	313	302	1490	95.3	95.3	**95.9**	0.83	0.86	**0.89**	2.0	7.1	2.2	1087	74	88	5.1	1186
WE3-315L3-4	IE3	200	352	334	322	1490	95.8	96.0	**96.0**	0.86	0.88	**0.90**	2.0	7.1	2.2	1111	74	88	5.1	1282
WE3-355M1-4	IE3	220	391	372	358	1495	95.8	96.0	**96.0**	0.84	0.87	**0.89**	2.0	7.1	2.2	1527	80	95	8.9	1405
WE3-355M2-4	IE3	250	440	418	403	1495	95.6	96.0	**96.0**	0.85	0.88	**0.90**	2.0	7.1	2.2	1547	80	95	8.2	1597
WE3-355L1-4	IE3	280	492	468	451	1495	95.4	96.0	**96.0**	0.85	0.88	**0.90**	2.0	7.1	2.2	1670	80	95	11	1789
WE3-355L2-4	IE3	315	554	526	507	1495	94.9	96.0	**96.0**	0.86	0.87	**0.90**	2.0	7.1	2.2	1827	80	95	9.2	2012
WE3-3551-4	IE3	355	638	607	585	1495	94.9	96.0	**96.0**	0.84	0.85	**0.88**	1.7	7.0	2.2	2012	87	102	10	2268
WE3-3552-4	IE3	375	674	641	618	1495	94.9	96.0	**96.0**	0.84	0.85	**0.88**	1.7	7.0	2.2	2307	87	102	12	2395

Cast iron motor-1000 min^{-1} (6 pole)

Type	Efficiency level	Rated power	Full load current at rated voltage I_N			Rated speed	Efficiency η			Power Factor cos Φ			Direct on line starting torque ratio	Direct on line starting current ratio	Direct on line pull out torque ratio	Weight	Noise		Moment of inertia	Full load torque
		kW	I_N380V	I_N400V	I_N415V	r/min	50%	75%	100%	50%	75%	100%	$\frac{M_A}{M_N}$	$\frac{I_A}{I_N}$	$\frac{M_K}{M_N}$	kg	$\frac{L_{PA}}{dB[A]}$	$\frac{L_{WA}}{dB[A]}$	kg•m^2	M_N Nm
WE3-80M1-6	IE3	0.37	1.09	1.04	1	925	72.7	74.8	**73.5**	0.50	0.62	**0.70**	2.0	6.0	2.1	17	42	54	0.0021	3.82
WE3-80M2-6	IE3	0.55	1.5	1.43	1.38	925	77.0	78.6	**77.2**	0.53	0.65	**0.72**	2.0	6.0	2.1	19	42	54	0.0033	5.7
WE3-90S-6	IE3	0.75	2.03	1.93	1.86	940	77.5	79.3	**78.9**	0.51	0.64	**0.71**	2.0	6.0	2.1	24	45	57	0.0055	7.6
WE3-90L-6	IE3	1.1	2.83	2.69	2.59	945	81.1	82.1	**81.0**	0.55	0.67	**0.73**	2.0	6.0	2.1	26	45	57	0.0072	11.1
WE3-100L-6	IE3	1.5	3.78	3.59	3.47	960	81.5	83.2	**82.5**	0.57	0.68	**0.73**	2.0	6.5	2.1	39	49	61	0.013	14.9
WE3-112M-6	IE3	2.2	5.4	5.1	4.91	950	82.6	84.5	**84.3**	0.56	0.67	**0.74**	2.0	6.6	2.1	45	53	65	0.021	22.1
WE3-132S-6	IE3	3	7.2	6.8	6.6	960	82.4	86.4	**85.6**	0.57	0.68	**0.74**	2.0	6.8	2.1	56	57	69	0.027	29.8
WE3-132M1-6	IE3	4	9.5	9	8.7	960	86.4	87.3	**86.8**	0.57	0.68	**0.74**	2.0	6.8	2.1	69	57	69	0.034	39.8
WE3-132M2-6	IE3	5.5	12.7	12	11.6	965	87.3	88.2	**88.0**	0.58	0.69	**0.75**	2.0	7.0	2.1	81	57	69	0.049	54
WE3-160M-6	IE3	7.5	16.2	15.4	14.8	970	88.0	89.2	**89.1**	0.63	0.74	**0.79**	2.0	7.0	2.1	117	60	73	0.12	74
WE3-160L-6	IE3	11	23.1	22	21.2	970	89.3	90.4	**90.3**	0.64	0.75	**0.80**	2.0	7.2	2.1	143	60	73	0.17	108
WE3-180L-6	IE3	15	30.9	29.3	28.2	975	90.5	91.4	**91.2**	0.69	0.78	**0.81**	2.0	7.3	2.1	194	60	73	0.27	147
WE3-200L1-6	IE3	18.5	37.8	35.9	34.7	980	90.5	91.7	**91.7**	0.69	0.77	**0.81**	2.0	7.3	2.1	235	60	73	0.4	180
WE3-200L2-6	IE3	22	44.8	42.5	41	980	91.2	92.2	**92.2**	0.68	0.77	**0.81**	2.0	7.4	2.1	255	60	73	0.47	214
WE3-225M-6	IE3	30	59	56	54	980	91.8	92.9	**92.9**	0.78	0.81	**0.83**	2.0	6.9	2.1	339	61	74	0.96	292
WE3-250M-6	IE3	37	72	68	66	985	92.6	93.3	**93.3**	0.72	0.80	**0.84**	2.0	7.1	2.1	437	62	76	1.3	359
WE3-280S-6	IE3	45	86	82	79	985	92.0	93.7	**93.7**	0.78	0.82	**0.85**	2.0	7.3	2.0	511	64	78	2.6	436
WE3-280M-6	IE3	55	103	98	95	985	92.6	94.1	**94.1**	0.76	0.83	**0.86**	2.0	7.3	2.0	656	64	78	3.3	533
WE3-315S-6	IE3	75	143	136	131	990	94.3	94.6	**94.6**	0.77	0.80	**0.84**	2.0	6.6	2.0	972	69	83	3.6	723
WE3-315M-6	IE3	90	170	161	155	990	94.2	94.9	**94.9**	0.73	0.80	**0.85**	2.0	6.7	2.0	1095	69	83	4.2	868
WE3-315L1-6	IE3	110	207	196	189	990	94.8	95.1	**95.1**	0.76	0.81	**0.85**	2.0	6.7	2.0	1190	69	83	5.2	1061
WE3-315L2-6	IE3	132	244	232	224	990	94.9	95.4	**95.4**	0.77	0.83	**0.86**	2.0	6.8	2.0	1265	69	83	6.2	1273
WE3-355M1-6	IE3	160	296	281	271	995	95.3	95.6	**95.6**	0.85	0.84	**0.86**	1.8	6.8	2.0	1497	70	85	9.8	1536
WE3-355M2-6	IE3	200	365	346	334	995	94.6	95.8	**95.8**	0.81	0.84	**0.87**	1.8	6.8	2.0	1674	70	85	12	1920
WE3-355L1-6	IE3	220	406	385	371	995	94.6	95.8	**95.8**	0.82	0.84	**0.86**	1.8	6.8	2.0	2002	70	85	13	2112
WE3-355L2-6	IE3	250	461	438	422	995	95.2	95.8	**95.8**	0.82	0.85	**0.86**	1.8	6.8	2.0	2022	76	85	14	2399
WE3-3551-6	IE3	280	516	491	473	995	95.2	95.8	**95.8**	0.82	0.85	**0.86**	1.8	6.8	2.0	2047	76	91	15	2687
WE3-3552-6	IE3	315	581	552	532	995	95.2	95.8	**95.8**	0.82	0.85	**0.86**	1.8	6.8	2.0	2112	76	91	16	3023

Cast iron motor-750 min^{-1} (8 pole)

Type	Efficiency level	Rated power	Full load current at rated voltage			Rated speed	Efficiency			Power Factor			Direct on line starting torque ratio	Direct on line starting current ratio	Direct on line pull out torque ratio	Weight	Noise		Moment of inertia	Full load torque
			I_N				η			cos Φ										
		kW	I_N380V	I_N400V	I_N415V	r/min	50%	75%	100%	50%	75%	100%	$\frac{M_A}{M_N}$	$\frac{I_A}{I_N}$	$\frac{M_K}{M_N}$	kg	L_{PA} dB[A]	L_{WA} dB[A]	kg•m^2	M_N Nm
WE3-80M1-8	IE3	0.18	0.76	0.73	0.7	695	54.6	59.1	**58.7**	0.40	0.50	**0.61**	1.8	3.3	1.9	17	40	52	0.0033	2.47
WE3-80M2-8	IE3	0.25	0.97	0.92	0.89	695	59.8	64.2	**64.1**	0.39	0.50	**0.61**	1.8	3.3	1.9	19	40	52	0.004	3.44
WE3-90S-8	IE3	0.37	1.33	1.26	1.22	700	67.1	71.1	**69.3**	0.42	0.54	**0.61**	1.8	4.0	1.9	22	44	56	0.0049	5
WE3-90L-8	IE3	0.55	1.88	1.78	1.72	700	69.7	73.3	**73.0**	0.43	0.55	**0.61**	1.8	4.0	2.0	25	44	56	0.0061	7.5
WE3-100L1-8	IE3	0.75	2.27	2.15	2.08	710	74.3	76.0	**75.0**	0.53	0.64	**0.67**	1.8	4.0	2.0	34	47	59	0.013	10.1
WE3-100L2-8	IE3	1.1	3.12	2.96	2.85	710	77.3	78.2	**77.7**	0.54	0.67	**0.69**	1.8	5.0	2.0	38	47	59	0.016	14.8
WE3-112M-8	IE3	1.5	4.14	3.94	3.79	710	79.2	81.3	**79.7**	0.53	0.65	**0.69**	1.8	5.0	2.0	41	49	61	0.023	20.2
WE3-132S-8	IE3	2.2	5.7	5.5	5.3	715	81.2	82.2	**81.9**	0.52	0.65	**0.71**	1.8	6.0	2.0	58	52	64	0.03	29.4
WE3-132M-8	IE3	3	7.5	7.1	6.8	715	83.1	84.0	**83.5**	0.50	0.63	**0.73**	1.8	6.0	2.0	73	52	64	0.04	40.1
WE3-160M1-8	IE3	4	9.8	9.3	9	730	85.2	86.3	**84.8**	0.52	0.65	**0.73**	1.9	6.0	2.0	102	55	68	0.092	52
WE3-160M2-8	IE3	5.5	13.1	12.4	12	725	86.4	86.5	**86.2**	0.55	0.69	**0.74**	2.0	6.0	2.0	109	55	68	0.11	72
WE3-160L-8	IE3	7.5	17.4	16.5	15.9	730	87.1	88.0	**87.3**	0.54	0.67	**0.75**	2.0	6.0	2.0	130	55	68	0.14	98
WE3-180L-8	IE3	11	24.8	23.6	22.7	730	88.6	89.6	**88.6**	0.56	0.68	**0.76**	2.0	6.6	2.0	193	57	70	0.28	144
WE3-200L-8	IE3	15	33.5	31.8	30.6	735	89.4	90.0	**89.6**	0.58	0.70	**0.76**	2.0	6.6	2.0	259	60	73	0.56	195
WE3-225S-8	IE3	18.5	41	39	37.6	735	90.0	90.9	**90.1**	0.61	0.72	**0.76**	1.9	6.6	2.0	287	60	73	0.86	240
WE3-225M-8	IE3	22	47.3	44.9	43.3	735	90.4	91.2	**90.6**	0.62	0.73	**0.78**	1.9	6.6	2.0	330	60	73	0.97	286
WE3-250M-8	IE3	30	63	60	58	740	91.2	91.6	**91.3**	0.65	0.76	**0.79**	1.9	6.6	2.0	452	61	75	1.5	387
WE3-280S-8	IE3	37	78	74	71	740	91.8	92.2	**91.8**	0.70	0.80	**0.79**	1.9	6.6	2.0	484	62	76	2.8	478
WE3-280M-8	IE3	45	94	89	86	740	92.1	92.5	**92.2**	0.70	0.80	**0.79**	1.9	6.6	2.0	623	62	76	3.3	581
WE3-315S-8	IE3	55	112	106	102	740	92.1	92.7	**92.5**	0.66	0.77	**0.81**	1.8	6.6	2.0	927	68	82	5.2	710
WE3-315M-8	IE3	75	151	144	138	740	92.7	93.4	**93.1**	0.68	0.78	**0.81**	1.8	6.6	2.0	1085	68	82	6.4	968
WE3-315L1-8	IE3	90	179	170	163	740	92.9	93.6	**93.4**	0.68	0.78	**0.82**	1.8	6.6	2.0	1213	68	82	7.3	1161
WE3-315L2-8	IE3	110	218	207	199	740	93.1	93.9	**93.7**	0.70	0.79	**0.82**	1.8	6.4	2.0	1288	68	82	8.4	1420
WE3-355M1-8	IE3	132	260	247	238	745	93.3	94.0	**94.0**	0.71	0.79	**0.82**	1.8	6.4	2.0	1523	75	90	13	1692
WE3-355M2-8	IE3	160	314	299	288	745	93.7	94.3	**94.3**	0.73	0.80	**0.82**	1.8	6.4	2.0	1640	75	90	15	2051
WE3-355L-8	IE3	200	387	368	354	745	93.9	94.6	**94.6**	0.72	0.80	**0.83**	1.8	6.4	2.0	1993	75	90	17	2564

Aluminium motor-3000/1500/1000rpm^{-1} (2/4/6 pole)

Type	Efficiency level	Rated power	I_N			Rated speed	Efficiency h			Power Factor cos Φ			Direct on line starting torque ratio	Direct on line starting current ratio	Direct on line pull out torque ratio	Weight	Noise		Moment of inertia	Full load torque
		kW	I_N380V	I_N400V	I_N415V	r/min	50%	75%	100%	50%	75%	100%	$\frac{M_A}{M_N}$	$\frac{I_A}{I_N}$	$\frac{M_K}{M_N}$	kg	$\frac{L_{PA}}{dB[A]}$	$\frac{L_{WA}}{dB[A]}$	kg•m^2	M_N Nm
WE3-90S-2	IE3	1.5	3.22	3.06	2.95	2885	84.1	84.9	**84.2**	0.74	0.81	**0.84**	2.2	7.6	2.3	16	55	67	0.0014	4.97
WE3-90L-2	IE3	2.2	4.58	4.35	4.19	2870	85.8	86.5	**85.9**	0.74	0.82	**0.85**	2.2	7.6	2.3	19	55	67	0.0016	7.3
WE3-100L-2	IE3	3	6	5.7	5.5	2900	86.2	87.4	**87.1**	0.79	0.84	**0.87**	2.2	7.8	2.3	26	62	74	0.0053	9.9
WE3-112M-2	IE3	4	7.8	7.4	7.2	2900	88.7	89.2	**88.1**	0.78	0.85	**0.88**	2.2	8.3	2.3	33	65	77	0.0069	13.2
WE3-132S1-2	IE3	5.5	10.6	10.1	9.7	2920	88.9	89.6	**89.2**	0.78	0.85	**0.88**	2.0	8.3	2.3	45	67	79	0.014	18
WE3-132S2-2	IE3	7.5	14.4	13.7	13.2	2905	89.9	90.6	**90.1**	0.79	0.85	**0.88**	2.0	7.9	2.3	50	67	79	0.018	24.7
WE3-160M1-2	IE3	11	20.6	19.6	18.9	2940	89.9	91.1	**91.2**	0.78	0.86	**0.89**	2.0	8.1	2.3	82	68	81	0.046	35.7
WE3-160M2-2	IE3	15	27.9	26.5	25.5	2930	91.3	92.1	**91.9**	0.79	0.86	**0.89**	2.0	8.1	2.3	90	68	81	0.053	48.9
WE3-160L-2	IE3	18.5	34.2	32.5	31.3	2930	92.2	92.7	**92.4**	0.81	0.87	**0.89**	2.0	8.2	2.3	104	68	81	0.063	60
WE3-90S-4	IE3	1.1	2.61	2.48	2.39	1430	83.2	84.6	**84.1**	0.56	0.69	**0.76**	2.3	6.8	2.3	16	47	59	0.0034	7.4
WE3-90L-4	IE3	1.5	3.47	3.3	3.18	1425	84.7	85.8	**85.3**	0.58	0.70	**0.77**	2.3	7.0	2.3	19	47	59	0.0043	10.1
WE3-100L1-4	IE3	2.2	4.76	4.52	4.36	1445	84.8	86.8	**86.7**	0.64	0.75	**0.81**	2.3	7.6	2.3	26	52	64	0.01	14.5
WE3-100L2-4	IE3	3	6.3	6	5.8	1420	85.7	87.7	**87.7**	0.65	0.76	**0.82**	2.3	7.6	2.3	31	52	64	0.014	20.2
WE3-112M-4	IE3	4	8.4	7.9	7.7	1450	88.5	89.2	**88.6**	0.69	0.78	**0.82**	2.2	7.8	2.3	38	53	65	0.02	26.3
WE3-132S-4	IE3	5.5	11.2	10.7	10.3	1460	89.3	90.0	**89.6**	0.67	0.77	**0.83**	2.0	7.9	2.3	48	59	71	0.032	36
WE3-132M-4	IE3	7.5	15	14.3	13.7	1445	90.9	91.2	**90.4**	0.70	0.80	**0.84**	2.0	7.5	2.3	59	59	71	0.036	49.6
WE3-160M-4	IE3	11	21.5	20.4	19.7	1470	90.7	91.6	**91.4**	0.70	0.80	**0.85**	2.2	7.7	2.3	96	60	73	0.089	71
WE3-160L-4	IE3	15	28.8	27.3	26.3	1470	92.0	92.5	**92.1**	0.74	0.82	**0.86**	2.2	7.8	2.3	106	60	73	0.11	97
WE3-90S-6	IE3	0.75	2.03	1.93	1.86	940	77.5	79.3	**78.9**	0.51	0.64	**0.71**	2.0	6.0	2.1	16	45	57	0.0055	7.6
WE3-90L-6	IE3	1.1	2.83	2.69	2.59	945	81.1	82.1	**81.0**	0.55	0.67	**0.73**	2.0	6.0	2.1	19	45	57	0.0072	11.1
WE3-100L-6	IE3	1.5	3.78	3.59	3.47	960	81.5	83.2	**82.5**	0.57	0.68	**0.73**	2.0	6.5	2.1	28	49	61	0.013	14.9
WE3-112M-6	IE3	2.2	5.4	5.1	4.91	950	82.6	84.5	**84.3**	0.56	0.67	**0.74**	2.0	6.6	2.1	36	53	65	0.021	22.1
WE3-132S-6	IE3	3	7.2	6.8	6.6	960	82.4	86.4	**85.6**	0.57	0.68	**0.74**	2.0	6.8	2.1	42	57	69	0.027	29.8
WE3-132M1-6	IE3	4	9.5	9	8.7	960	86.4	87.3	**86.8**	0.57	0.68	**0.74**	2.0	6.8	2.1	49	57	69	0.034	39.8
WE3-132M2-6	IE3	5.5	12.7	12	11.6	965	87.3	88.2	**88.0**	0.58	0.69	**0.75**	2.0	7.0	2.1	64	57	69	0.049	54
WE3-160M-6	IE3	7.5	16.2	15.4	14.8	970	88.0	89.2	**89.1**	0.63	0.74	**0.79**	2.0	7.0	2.1	89	60	73	0.12	74
WE3-160L-6	IE3	11	23.1	22	21.2	970	89.3	90.4	**90.3**	0.64	0.75	**0.80**	2.0	7.2	2.1	109	60	73	0.17	108

Cast iron motor-3000 min^{-1} (2 pole)

Type	Efficiency level	Rated power	Full load current at rated voltage I_N			Rated speed	Efficiency η			Power Factor cos Φ			Direct on line starting torque ratio	Direct on line starting current ratio	Direct on line pull out torque ratio	Weight	Noise		Moment of inertia	Full load torque
		kW	I_N380V	I_N400V	I_N415V	r/min	50%	75%	100%	50%	75%	100%	$\frac{M_A}{M_N}$	$\frac{I_A}{I_N}$	$\frac{M_K}{M_N}$	kg	L_{PA} dB[A]	L_{WA} dB[A]	kg•m^2	M_N Nm
WE2-80M1-2	IE2	0.75	1.8	1.71	1.64	2855	77.1	77.8	**77.4**	0.73	0.79	**0.82**	2.3	6.8	2.3	13	50	62	0.00081	2.51
WE2-80M2-2	IE2	1.1	2.53	2.4	2.32	2875	78.9	81.2	**79.6**	0.74	0.81	**0.83**	2.3	7.1	2.3	14	50	62	0.0012	3.65
WE2-90S-2	IE2	1.5	3.34	3.17	3.06	2880	80.0	82.1	**81.3**	0.75	0.82	**0.84**	2.3	7.3	2.3	21	55	67	0.0013	4.97
WE2-90L-2	IE2	2.2	4.73	4.49	4.33	2880	82.1	83.9	**83.2**	0.74	0.82	**0.85**	2.3	7.6	2.3	26	55	67	0.0016	7.3
WE2-100L-2	IE2	3	6.2	5.9	5.7	2895	83.5	85.3	**84.6**	0.79	0.84	**0.87**	2.2	7.8	2.3	34	62	74	0.005	9.9
WE2-112M-2	IE2	4	8	7.6	7.4	2900	84.9	86.5	**85.8**	0.78	0.85	**0.88**	2.2	8.1	2.3	39	65	77	0.0062	13.2
WE2-132S1-2	IE2	5.5	10.9	10.4	10	2910	86.5	87.6	**87.0**	0.78	0.85	**0.88**	2.2	8.2	2.3	55	67	79	0.011	18
WE2-132S2-2	IE2	7.5	14.5	13.8	13.3	2910	87.4	88.8	**88.1**	0.79	0.85	**0.89**	2.2	7.8	2.3	63	67	79	0.017	24.6
WE2-160M1-2	IE2	11	21	20	19.2	2930	88.9	89.8	**89.4**	0.78	0.86	**0.89**	2.2	7.9	2.3	110	68	81	0.042	35.9
WE2-160M2-2	IE2	15	28.4	26.9	26	2930	89.5	91.1	**90.3**	0.79	0.86	**0.89**	2.2	7.9	2.3	115	68	81	0.049	48.9
WE2-160L-2	IE2	18.5	34.7	33	31.8	2930	90.1	91.7	**90.9**	0.81	0.87	**0.89**	2.2	8.0	2.3	136	68	81	0.063	60
WE2-180M-2	IE2	22	41.1	39.1	37.7	2945	90.8	91.9	**91.3**	0.81	0.87	**0.89**	2.2	8.1	2.3	163	70	83	0.089	71
WE2-200L1-2	IE2	30	56	53	51	2950	91.5	92.4	**92.0**	0.80	0.87	**0.89**	2.0	7.5	2.3	242	71	84	0.17	97
WE2-200L2-2	IE2	37	68	65	63	2950	91.9	92.8	**92.5**	0.79	0.86	**0.89**	2.0	7.5	2.3	256	71	84	0.2	120
WE2-225M-2	IE2	45	83	79	76	2960	92.3	92.9	**92.9**	0.80	0.87	**0.89**	2.2	7.5	2.3	318	73	86	0.36	145
WE2-250M-2	IE2	55	101	96	92	2965	92.7	93.2	**93.2**	0.79	0.86	**0.89**	2.2	7.6	2.3	384	75	89	0.42	177
WE2-280S-2	IE2	75	136	130	125	2970	93.3	93.8	**93.8**	0.80	0.87	**0.89**	1.8	6.9	2.3	504	77	91	0.8	241
WE2-280M-2	IE2	90	163	155	150	2980	93.6	94.1	**94.1**	0.80	0.87	**0.89**	1.8	6.9	2.3	634	77	91	0.99	288
WE2-315S-2	IE2	110	197	187	180	2985	93.7	94.3	**94.3**	0.81	0.88	**0.90**	1.8	7.0	2.2	886	78	92	1.3	352
WE2-315M-2	IE2	132	236	224	216	2985	94.1	94.6	**94.6**	0.80	0.87	**0.90**	1.8	7.0	2.2	999	78	92	1.4	422
WE2-315L1-2	IE2	160	282	268	258	2985	94.3	94.8	**94.8**	0.82	0.88	**0.91**	1.8	7.1	2.2	1140	78	92	2	512
WE2-315L2-2	IE2	185	325	309	298	2985	94.4	94.9	**94.9**	0.81	0.87	**0.91**	1.8	7.1	2.2	1206	78	92	2.2	592
WE2-315L3-2	IE2	200	351	334	322	2985	94.5	95.0	**95.0**	0.81	0.87	**0.91**	1.8	7.1	2.2	1246	78	92	2.4	640
WE2-355M1-2	IE2	220	387	367	354	2990	94.5	95.0	**95.0**	0.81	0.87	**0.91**	1.6	7.1	2.2	1694	85	100	4	703
WE2-355M2-2	IE2	250	439	417	402	2990	94.5	95.0	**95.0**	0.82	0.88	**0.91**	1.6	7.1	2.2	1711	85	100	4.7	798
WE2-355L1-2	IE2	280	492	467	451	2990	94.5	95.0	**95.0**	0.82	0.88	**0.91**	1.6	7.2	2.2	2068	85	100	4.3	894
WE2-355L2-2	IE2	315	554	526	507	2990	94.5	95.0	**95.0**	0.82	0.88	**0.91**	1.6	7.2	2.2	2091	85	100	5.7	1006
WE2-3551-2	IE2	355	624	593	571	2990	94.5	95.0	**95.0**	0.82	0.88	**0.91**	1.6	7.5	2.2	2332	89	104	6.5	1134
WE2-3552-2	IE2	375	659	626	603	2990	94.5	95.0	**95.0**	0.82	0.88	**0.91**	1.6	7.5	2.2	2350	89	104	6.5	1198

Cast iron motor-1500 min^{-1} (4 pole)

Type	Efficiency level	Rated power	Full load current at rated voltage I_N			Rated speed	Efficiency η			Power Factor cos Φ			Direct on line starting torque ratio $\frac{M_A}{M_N}$	Direct on line starting current ratio $\frac{I_A}{I_N}$	Direct on line pull out torque ratio $\frac{M_K}{M_N}$	Weight	Noise		Moment of inertia	Full load torque
		kW	I_N380V	I_N400V	I_N415V	r/min	50%	75%	100%	50%	75%	100%				kg	$\frac{L_{PA}}{dB[A]}$	$\frac{L_{WA}}{dB[A]}$	kg•m^2	$\frac{M_N}{Nm}$
WE2-80M1-4	IE2	0.55	1.45	1.37	1.32	1420	75.6	76.9	**77.1**	0.56	0.68	**0.75**	2.4	6.4	2.3	16	44	56	0.0015	3.7
WE2-80M2-4	IE2	0.75	1.88	1.79	1.72	1420	78.6	80.1	**79.6**	0.56	0.69	**0.76**	2.3	6.4	2.3	18	44	56	0.002	5
WE2-90S-4	IE2	1.1	2.67	2.53	2.44	1430	80.9	81.9	**81.4**	0.57	0.70	**0.77**	2.3	6.6	2.3	21	47	59	0.0028	7.3
WE2-90L-4	IE2	1.5	3.53	3.35	3.23	1430	82.4	83.3	**82.8**	0.59	0.71	**0.78**	2.3	6.7	2.3	23	47	59	0.0034	10
WE2-100L1-4	IE2	2.2	4.96	4.71	4.54	1440	83.8	84.9	**84.3**	0.64	0.75	**0.80**	2.3	7.3	2.3	35	52	64	0.0099	14.6
WE2-100L2-4	IE2	3	6.6	6.3	6	1440	85.1	86.0	**85.5**	0.65	0.76	**0.81**	2.3	7.5	2.3	39	52	64	0.013	19.9
WE2-112M-4	IE2	4	8.7	8.2	7.9	1445	86.2	87.1	**86.6**	0.65	0.76	**0.81**	2.3	7.5	2.3	45	53	65	0.02	26.4
WE2-132S-4	IE2	5.5	11.6	11	10.6	1455	87.3	88.2	**87.7**	0.67	0.77	**0.82**	2.0	7.5	2.3	62	59	71	0.028	36.1
WE2-132M-4	IE2	7.5	15.5	14.7	14.2	1455	88.2	89.2	**88.7**	0.68	0.79	**0.83**	2.0	7.3	2.3	73	59	71	0.031	49.2
WE2-160M-4	IE2	11	22.4	21.3	20.5	1460	89.3	90.3	**89.8**	0.70	0.80	**0.83**	2.0	7.4	2.3	119	60	73	0.078	72
WE2-160L-4	IE2	15	29.9	28.4	27.4	1460	90.0	91.1	**90.6**	0.71	0.81	**0.84**	2.0	7.5	2.3	137	60	73	0.099	98
WE2-180M-4	IE2	18.5	36.3	34.4	33.2	1470	90.7	91.2	**91.2**	0.72	0.82	**0.85**	2.0	7.6	2.3	167	63	76	0.163	120
WE2-180L-4	IE2	22	42.9	40.8	39.3	1470	91.1	91.6	**91.6**	0.72	0.82	**0.85**	2.1	7.7	2.3	185	63	76	0.15	143
WE2-200L-4	IE2	30	58	55	53	1470	91.8	92.3	**92.3**	0.72	0.82	**0.85**	2.1	7.1	2.3	255	63	76	0.4	195
WE2-225S-4	IE2	37	71	67	65	1480	92.2	92.7	**92.7**	0.73	0.82	**0.86**	2.1	7.3	2.3	288	65	78	0.41	239
WE2-225M-4	IE2	45	85	81	78	1480	92.6	93.1	**93.1**	0.74	0.82	**0.86**	2.2	7.3	2.3	319	65	78	0.5	290
WE2-250M-4	IE2	55	104	99	95	1480	93.0	93.5	**93.5**	0.75	0.82	**0.86**	2.2	7.3	2.3	421	65	79	0.81	355
WE2-280S-4	IE2	75	139	132	128	1480	93.5	94.0	**94.0**	0.76	0.83	**0.87**	2.2	6.8	2.3	541	66	80	1.5	484
WE2-280M-4	IE2	90	165	157	151	1480	93.7	94.2	**94.2**	0.77	0.84	**0.88**	2.2	6.9	2.3	657	66	80	1.8	581
WE2-315S-4	IE2	110	199	189	182	1485	93.9	94.5	**94.5**	0.80	0.86	**0.89**	2.1	6.9	2.2	955	74	88	2.1	707
WE2-315M-4	IE2	132	238	226	218	1485	94.2	94.7	**94.7**	0.82	0.87	**0.89**	2.1	6.9	2.2	1017	74	88	3.3	849
WE2-315L1-4	IE2	160	285	270	261	1485	94.4	94.9	**94.9**	0.83	0.87	**0.90**	2.1	6.9	2.2	1055	74	88	3.9	1029
WE2-315L2-4	IE2	185	329	312	301	1485	94.5	95.0	**95.0**	0.83	0.87	**0.90**	2.1	6.9	2.2	1092	74	88	5.1	1190
WE2-315L3-4	IE2	200	355	337	325	1485	94.6	95.1	**95.1**	0.83	0.87	**0.90**	2.1	6.9	2.2	1116	74	88	5.1	1286
WE2-355M1-4	IE2	220	391	371	358	1490	94.7	95.1	**95.1**	0.83	0.87	**0.90**	2.0	6.9	2.2	1522	80	95	8.3	1410
WE2-355M2-4	IE2	250	444	422	406	1490	94.6	95.1	**95.1**	0.83	0.87	**0.90**	2.0	6.9	2.2	1542	80	95	8.3	1602
WE2-355L1-4	IE2	280	497	472	455	1490	94.6	95.1	**95.1**	0.83	0.87	**0.90**	2.0	6.9	2.2	1663	80	95	9	1795
WE2-355L2-4	IE2	315	559	531	512	1490	94.6	95.1	**95.1**	0.83	0.87	**0.90**	2.0	6.9	2.2	1820	80	95	9.2	2019
WE2-3551-4	IE2	355	637	605	584	1490	94.7	95.1	**95.1**	0.82	0.86	**0.89**	1.7	7.2	2.2	2008	87	102	10	2275
WE2-3552-4	IE2	375	673	639	616	1490	94.7	95.1	**95.1**	0.82	0.86	**0.89**	1.7	7.2	2.2	2308	87	102	12	2404

Cast iron motor-1000 min^{-1} (6 pole)

Type	Efficiency level	Rated power	Full load current at rated voltage			Rated speed	Efficiency			Power Factor			Direct on line starting torque ratio	Direct on line starting current ratio	Direct on line pull out torque ratio	Weight	Noise		Moment of inertia	Full load torque
			I_N				h			cos Φ										
		kW	I_N380V	I_N400V	I_N415V	r/min	50%	75%	100%	50%	75%	100%	$\frac{M_A}{M_N}$	$\frac{I_A}{I_N}$	$\frac{M_K}{M_N}$	kg	$\frac{L_{PA}}{dB[A]}$	$\frac{L_{WA}}{dB[A]}$	kg•m^2	M_N Nm
WE2-80M1-6	IE2	0.37	1.19	1.13	1.09	925	66.9	67.2	**67.6**	0.50	0.62	**0.70**	1.9	5.8	2.0	16	42	54	0.002	3.82
WE2-80M2-6	IE2	0.55	1.59	1.51	1.45	925	72.4	72.7	**73.1**	0.50	0.62	**0.72**	1.9	5.8	2.1	17	42	54	0.003	5.7
WE2-90S-6	IE2	0.75	2.11	2.01	1.94	935	75.4	76.3	**75.9**	0.51	0.64	**0.71**	2.0	5.8	2.1	22	42	57	0.005	7.7
WE2-90L-6	IE2	1.1	2.97	2.82	2.72	935	77.6	78.6	**78.1**	0.52	0.65	**0.72**	2.0	5.9	2.1	25	45	57	0.007	11.2
WE2-100L-6	IE2	1.5	3.97	3.77	3.63	940	79.3	80.3	**79.8**	0.52	0.65	**0.72**	2.0	5.9	2.1	36	49	61	0.013	15.2
WE2-112M-6	IE2	2.2	5.7	5.4	5.2	945	81.4	82.3	**81.8**	0.53	0.65	**0.72**	2.0	6.2	2.1	42	53	65	0.019	22.2
WE2-132S-6	IE2	3	7.6	7.2	7	950	82.8	83.8	**83.3**	0.53	0.65	**0.72**	2.0	6.4	2.1	53	57	69	0.027	30.2
WE2-132M1-6	IE2	4	9.7	9.2	8.9	950	84.1	87.1	**84.6**	0.57	0.68	**0.74**	2.0	6.6	2.1	62	57	69	0.03	40.2
WE2-132M2-6	IE2	5.5	13	12.3	11.9	950	85.6	86.5	**86.0**	0.58	0.69	**0.75**	2.0	6.8	2.1	75	57	69	0.041	55
WE2-160M-6	IE2	7.5	16.8	15.9	15.3	960	86.8	87.7	**87.2**	0.61	0.72	**0.78**	2.0	6.8	2.1	110	60	73	0.099	75
WE2-160L-6	IE2	11	23.9	22.7	21.8	965	88.3	89.2	**88.7**	0.62	0.73	**0.79**	2.0	6.9	2.1	135	60	73	0.17	109
WE2-180L-6	IE2	15	31	29.4	28.4	970	89.3	90.2	**89.7**	0.68	0.77	**0.82**	2.0	7.3	2.1	189	60	73	0.25	148
WE2-200L1-6	IE2	18.5	38.9	36.9	35.6	975	89.7	90.4	**90.4**	0.68	0.76	**0.80**	2.0	7.2	2.1	223	60	73	0.38	181
WE2-200L2-6	IE2	22	45.4	43.1	41.6	975	90.4	90.9	**90.9**	0.68	0.77	**0.81**	2.0	7.3	2.1	242	60	73	0.4	215
WE2-225M-6	IE2	30	61	58	56	980	91.2	91.7	**91.7**	0.70	0.78	**0.82**	2.0	6.8	2.1	328	61	74	0.9	292
WE2-250M-6	IE2	37	73	70	67	985	91.7	92.2	**92.2**	0.71	0.79	**0.83**	2.0	7.0	2.1	423	62	76	1	359
WE2-280S-6	IE2	45	87	82	79	985	92.2	92.7	**92.7**	0.73	0.80	**0.85**	2.0	7.2	2.0	467	64	78	2.1	436
WE2-280M-6	IE2	55	104	99	96	985	92.6	93.1	**93.1**	0.75	0.82	**0.86**	2.0	7.2	2.0	597	64	78	2.9	533
WE2-315S-6	IE2	75	145	138	133	990	93.2	93.7	**93.7**	0.74	0.80	**0.84**	2.0	6.5	2.0	925	69	83	3.4	723
WE2-315M-6	IE2	90	171	163	157	990	93.6	94.0	**94.0**	0.73	0.80	**0.85**	2.0	6.6	2.0	1040	69	83	4	868
WE2-315L1-6	IE2	110	209	198	191	990	94.0	94.3	**94.3**	0.74	0.81	**0.85**	2.0	6.6	2.0	1165	69	83	5	1061
WE2-315L2-6	IE2	132	247	234	226	990	94.3	94.6	**94.6**	0.75	0.83	**0.86**	2.0	6.6	2.0	1233	69	83	6	1273
WE2-355M1-6	IE2	160	298	283	273	995	94.3	94.8	**94.8**	0.75	0.83	**0.86**	2.0	6.7	2.0	1459	70	85	9.1	1536
WE2-355M2-6	IE2	200	372	353	341	995	94.6	95.0	**95.0**	0.75	0.83	**0.86**	2.0	6.8	2.0	1617	70	85	12	1920
WE2-355L1-6	IE2	220	409	389	375	995	94.6	95.0	**95.0**	0.75	0.83	**0.86**	2.0	6.8	2.0	1936	70	85	13	2112
WE2-355L2-6	IE2	250	465	442	426	995	94.6	95.0	**95.0**	0.75	0.83	**0.86**	2.0	6.8	2.0	1956	76	91	14	2399
WE2-3551-6	IE2	280	521	495	477	995	94.7	95.0	**95.0**	0.76	0.84	**0.86**	2.0	7.1	2.0	1981	76	91	15	2687
WE2-3552-6	IE2	355	624	593	571	2990	94.5	95.0	**95.0**	0.82	0.88	**0.91**	1.6	7.5	2.2	2332	76	91	16	3023

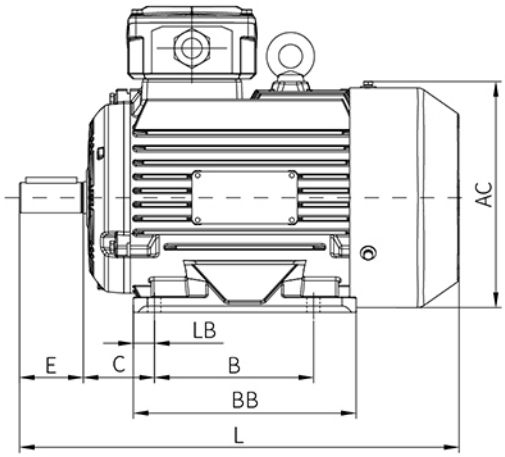
Cast iron motor-750 min^{-1} (8 pole)

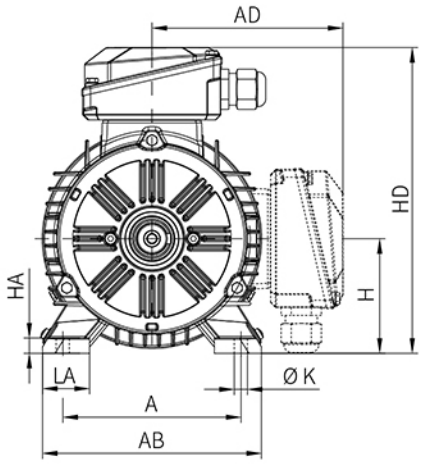
Type	Efficiency level	Rated power	Full load current at rated voltage I_N			Rated speed	Efficiency η			Power Factor cos Φ			Direct on line starting torque ratio	Direct on line starting current ratio	Direct on line pull out torque ratio	Weight	Noise		Moment of inertia	Full load torque
		kW	I_N380V	I_N400V	I_N415V	r/min	50%	75%	100%	50%	75%	100%	$\frac{M_A}{M_N}$	$\frac{I_A}{I_N}$	$\frac{M_K}{M_N}$	kg	L_{PA} dB[A]	L_{WA} dB[A]	kg•m^2	M_N Nm
WE2-80M1-8	IE2	0.18	0.98	0.93	0.89	680	42.3	46.0	**45.9**	0.41	0.52	**0.61**	1.8	5.1	1.9	16	40	52	0.0027	2.53
WE2-80M2-8	IE2	0.25	1.23	1.17	1.13	680	47.5	50.9	**50.6**	0.42	0.53	**0.61**	1.8	5.5	1.9	18	40	52	0.0033	3.51
WE2-90S-8	IE2	0.37	1.64	1.56	1.5	700	56.0	57.4	**56.1**	0.50	0.63	**0.61**	1.8	6.0	1.9	22	44	56	0.0046	5
WE2-90L-8	IE2	0.55	2.22	2.11	2.03	700	60.8	62.7	**61.7**	0.48	0.61	**0.61**	1.8	5.8	2.0	25	44	56	0.0058	7.5
WE2-100L1-8	IE2	0.75	2.57	2.44	2.35	710	67.2	68.2	**66.2**	0.56	0.69	**0.67**	1.8	6.1	2.0	32	47	59	0.01	10.1
WE2-100L2-8	IE2	1.1	3.42	3.25	3.13	710	71.3	72.3	**70.8**	0.56	0.69	**0.69**	1.8	6.1	2.0	35	47	59	0.012	14.8
WE2-112M-8	IE2	1.5	4.39	4.17	4.02	715	73.8	75.2	**74.1**	0.53	0.66	**0.70**	1.8	6.4	2.0	39	49	61	0.019	20
WE2-132S-8	IE2	2.2	6.1	5.8	5.6	720	78.5	79.0	**77.6**	0.57	0.70	**0.71**	1.8	6.4	2.0	58	52	64	0.028	29.2
WE2-132M-8	IE2	3	7.8	7.4	7.1	720	81.1	81.5	**80.0**	0.58	0.70	**0.73**	1.8	6.8	2.0	69	52	64	0.034	39.8
WE2-160M1-8	IE2	4	10.2	9.7	9.3	725	81.2	82.1	**81.9**	0.57	0.70	**0.73**	1.9	6.8	2.0	99	55	68	0.081	53
WE2-160M2-8	IE2	5.5	13.5	12.8	12.3	725	83.5	84.2	**83.8**	0.59	0.71	**0.74**	1.9	6.7	2.0	106	55	68	0.094	72
WE2-160L-8	IE2	7.5	17.8	16.9	16.3	725	85.6	86.2	**85.3**	0.60	0.72	**0.75**	1.9	6.4	2.0	124	55	68	0.12	99
WE2-180L-8	IE2	11	25.6	24.4	23.5	730	85.8	87.0	**86.9**	0.58	0.70	**0.75**	2.0	6.5	2.0	186	57	70	0.24	144
WE2-200L-8	IE2	15	34.1	32.4	31.2	735	87.4	88.3	**88.0**	0.60	0.72	**0.76**	2.0	6.6	2.0	246	60	73	0.49	195
WE2-225S-8	IE2	18.5	41.7	39.7	38.2	735	88.2	88.9	**88.6**	0.62	0.73	**0.76**	1.9	6.6	2.0	272	60	73	0.75	240
WE2-225M-8	IE2	22	48.1	45.7	44	735	88.3	89.3	**89.1**	0.64	0.74	**0.78**	1.9	6.6	2.0	313	60	73	0.83	286
WE2-250M-8	IE2	30	64	61	59	735	89.6	90.1	**89.8**	0.67	0.77	**0.79**	1.9	6.5	2.0	433	61	75	1.4	390
WE2-280S-8	IE2	37	79	75	72	740	89.9	90.5	**90.3**	0.70	0.79	**0.79**	1.9	6.5	2.0	474	62	76	2.6	478
WE2-280M-8	IE2	45	95	91	87	740	90.4	90.9	**90.7**	0.72	0.81	**0.79**	1.9	6.5	2.0	603	62	76	2.9	581
WE2-315S-8	IE2	55	113	108	104	740	90.0	91.0	**91.0**	0.68	0.78	**0.81**	1.8	6.6	2.0	895	68	82	4.7	710
WE2-315M-8	IE2	75	154	146	141	740	90.6	91.6	**91.6**	0.69	0.79	**0.81**	1.8	6.1	2.0	1052	68	82	5.8	968
WE2-315L1-8	IE2	90	181	172	166	740	90.9	91.9	**91.9**	0.69	0.79	**0.82**	1.8	6.2	2.0	1173	68	82	6.6	1161
WE2-315L2-8	IE2	110	221	210	202	740	91.3	92.3	**92.3**	0.69	0.79	**0.82**	1.8	6.3	2.0	1240	68	82	7.5	1420
WE2-355M1-8	IE2	132	264	251	242	745	91.6	92.6	**92.6**	0.69	0.78	**0.82**	1.8	6.3	2.0	1479	75	89	12	1692
WE2-355M2-8	IE2	160	319	303	292	745	92.0	93.0	**93.0**	0.70	0.79	**0.82**	1.8	6.3	2.0	1568	75	89	13	2051
WE2-355L-8	IE2	200	392	372	359	745	92.6	93.5	**93.5**	0.70	0.79	**0.83**	1.8	6.4	2.0	1945	75	89	16	2564

Foot (B3) mounted - frame sizes 80 to 355

IM B3
IM 1001
H80~H100

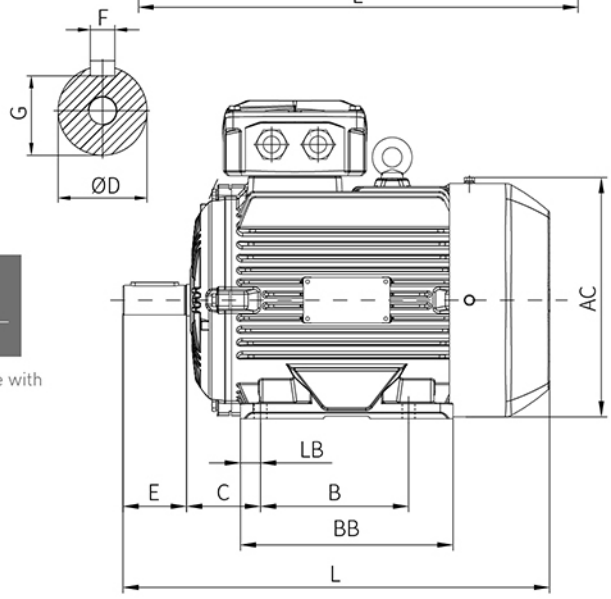
H80M and 90S without eyebolt

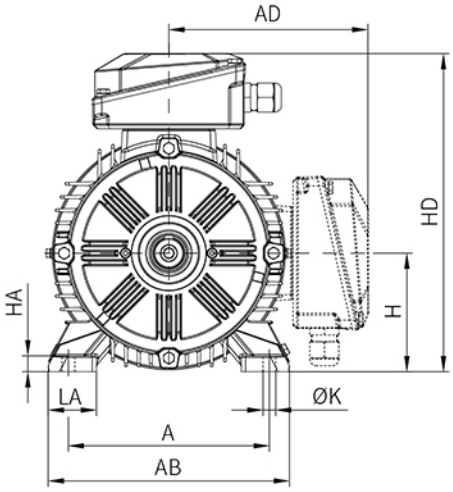




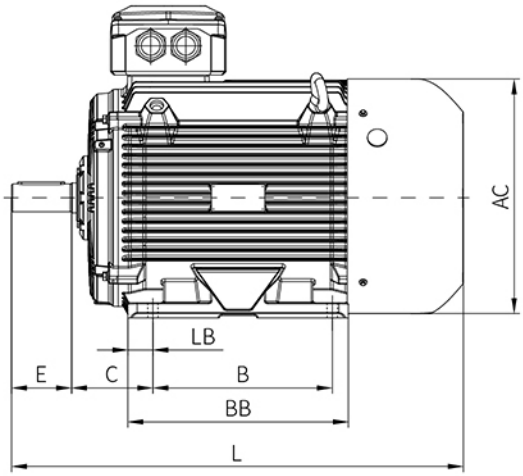
IM B3
IM 1001
H112~H200

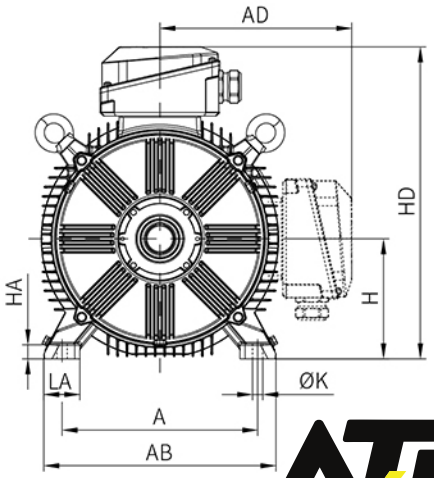
H200 and above couple with double eyebolts





IM B3
IM 1001
H225~H355





Technology in Motion

Foot (B3) mounted ,cast iron motor

Frame	Poles	Mounting dimensions (mm)									Boundary dimension(mm)								
		A	B	C	D	E	F	G	H	K	LA	LB	AB	BB	HA	AC	AD	HD	L
80M	2~8	125	100	50	19	40	6	15.5	80	10	32	15	157	146	10	163	136	221	320
90S	2~8	140	100	56	24	50	8	20	90	10	37	16.6	172	153	12	177	149	244	345
90L	2~8	140	125	56	24	50	8	20	90	10	37	16.6	172	175	12	177	149	244	370
100L	2~8	160	140	63	28	60	8	24	100	12	45	19	200	198	15	208	163	268	420
112M	2~8	190	140	70	28	60	8	24	112	12	45	19	228	201	15	226	189	305	465
132S	2~8	216	140	89	38	80	10	33	132	12	56.5	21.5	262	184	18	260	210	345	450
132M	4~8	216	178	89	38	80	10	33	132	12	56.5	21.5	262	222	18	260	210	345	490
160M	2~8	254	210	108	42	110	12	37	160	14.5	65	27	314	280	20	320	260	422	620
160L	2~8	254	254	108	42	110	12	37	160	14.5	65	27	314	324	20	320	260	422	665
180M	2,4	279	241	121	48	110	14	42.5	180	14.5	68	26.5	349	297	22	360	279	463	735
180L	4~8	279	279	121	48	110	14	42.5	180	14.5	68	26.5	349	335	22	360	279	463	770
200L	2~8	318	305	133	55	110	16	49	200	18.5	84	30	388	380	25	396	321	526	845
225S	4,8	356	286	149	60	140	18	53	225	18.5	84	43	431	368	28	442	345	570	900
225M	2	356	311	149	55	110	16	49	225	18.5	84	30.5	431	368	28	442	345	570	900
225M	4~8	356	311	149	60	140	18	53	225	18.5	84	30.5	431	368	28	442	345	570	925
250M	2	406	349	168	60	140	18	53	250	24	80	43	484	421	30	488	446	671	950
250M	4~8	406	349	168	65	140	18	58	250	24	80	43	484	421	30	488	446	671	950
280S	2	457	368	190	65	140	18	58	280	24	84	55	542	460	35	547	449	728	1007
280S	4~8	457	368	190	75	140	20	67.5	280	24	84	55	542	460	35	547	449	728	1007
280M	2	457	419	190	65	140	18	58	280	24	84	58.5	542	515	35	547	449	728	1055
280M	4~8	457	419	190	75	140	20	67.5	280	24	84	58.5	542	515	35	547	449	728	1055
315S	2	508	406	216	65	140	18	58	315	28	115	46	628	540	40	631	507	822	1190
315S	4~8	508	406	216	80	170	22	71	315	28	115	46	628	540	40	631	507	822	1220
315M	2	508	457	216	65	140	18	58	315	28	115	46	628	640	40	631	507	822	1290
315M	4~8	508	457	216	80	170	22	71	315	28	115	46	628	640	40	631	507	822	1320
315L	2	508	508	216	65	140	18	58	315	28	115	46	628	640	40	631	507	822	1290
315L	4~8	508	508	216	80	170	22	71	315	28	115	46	628	640	40	631	507	822	1320
355M	2	610	560	254	75	140	20	67.5	355	28	146	40.5	740	700	45	709	644	999	1432
355M	4~8	610	560	254	95	170	25	86	355	28	146	40.5	740	700	45	709	644	999	1462
355L	2	610	630	254	75	140	20	67.5	355	28	146	49	740	887	45	709	644	999	1602
355L	4~8	610	630	254	95	170	25	86	355	28	146	49	740	887	45	709	644	999	1632
3551	2	610	630	254	75	140	20	67.5	355	28	146	49	740	887	45	709	644	999	1602
3551	4,6	610	630	254	95	170	25	86	355	28	146	49	740	887	45	709	644	999	1632

Foot (B3) mounted ,cast iron motor

Frame	Poles	Mounting dimensions (mm)									Boundary dimension(mm)								
		A	B	C	D	E	F	G	H	K	LA	LB	AB	BB	HA	AC	AD	HD	L
80M	2~8	125	100	50	19	40	6	15.5	80	10	32	15	157	146	10	163	136	221	299
90S	2~8	140	100	56	24	50	8	20	90	10	37	16.6	172	153	12	177	149	244	329
90L	2~8	140	125	56	24	50	8	20	90	10	37	16.6	172	175	12	177	149	244	351
100L	2~8	160	140	63	28	60	8	24	100	12	45	19	200	198	15	208	163	268	401
112M	2~8	190	140	70	28	60	8	24	112	12	45	19	228	201	15	226	189	305	417
132S	2~8	216	140	89	38	80	10	33	132	12	56.5	21.5	262	184	18	252	203	340	454
132M	4~8	216	178	89	38	80	10	33	132	12	56.5	21.5	262	222	18	252	203	340	492
160M	2~8	254	210	108	42	110	12	37	160	14.5	65	46	314	280	20	318	256	421	590
160L	2~8	254	254	108	42	110	12	37	160	14.5	65	46	314	324	20	318	256	421	634
180M	2,4	279	241	121	48	110	14	42.5	180	14.5	68	26.5	349	297	22	360	279	463	655
180L	4~8	279	279	121	48	110	14	42.5	180	14.5	68	26.5	349	335	22	360	279	463	693
200L	2~8	318	305	133	55	110	16	49	200	18.5	84	30	388	380	25	396	321	526	796
225S	4	356	286	149	60	140	18	53	225	18.5	84	43	431	368	28	442	345	570	846
225M	2	356	311	149	55	110	16	49	225	18.5	84	30.5	431	368	28	442	345	570	841
225M	4~8	356	311	149	60	140	18	53	225	18.5	84	30.5	431	368	28	442	345	570	871
250M	2	406	349	168	60	140	18	53	250	24	80	43	484	421	30	488	421	671	929
250M	4~8	406	349	168	65	140	18	58	250	24	80	43	484	421	30	488	421	671	929
280S	2	457	368	190	65	140	18	58	280	24	84	55	542	460	35	547	449	728	1007
280S	4~8	457	368	190	75	140	20	67.5	280	24	84	55	542	460	35	547	449	728	1007
280M	2	457	419	190	65	140	18	58	280	24	84	58.5	542	515	35	547	449	728	1055
280M	4~8	457	419	190	75	140	20	67.5	280	24	84	58.5	542	515	35	547	449	728	1055
315S	2	508	406	216	65	140	18	58	315	28	115	46	628	540	40	631	507	822	1190
315S	4~8	508	406	216	80	170	22	71	315	28	115	46	628	540	40	631	507	822	1220
315M	2	508	457	216	65	140	18	58	315	28	115	46	628	640	40	631	507	822	1290
315M	4~8	508	457	216	80	170	22	71	315	28	115	46	628	640	40	631	507	822	1320
315L	2	508	508	216	65	140	18	58	315	28	115	46	628	640	40	631	507	822	1290
315L	4~8	508	508	216	80	170	22	71	315	28	115	46	628	640	40	631	507	822	1320
355M	2	610	560	254	75	140	20	67.5	355	28	146	40.5	740	700	45	709	644	999	1432
355M	4~8	610	560	254	95	170	25	86	355	28	146	40.5	740	700	45	709	644	999	1462
355L	2	610	630	254	75	140	20	67.5	355	28	146	49	740	887	45	709	644	999	1602
355L	4~8	610	630	254	95	170	25	86	355	28	146	49	740	887	45	709	644	999	1632
3551/3552	2	610	630	254	75	140	20	67.5	355	28	146	49	740	887	45	709	644	999	1602
3551/3552	4~8	610	630	254	95	170	25	86	355	28	146	49	740	887	45	709	644	999	1632

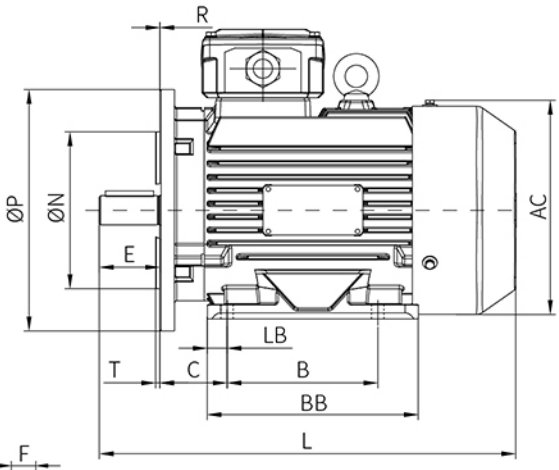
Foot (B3) mounted , aluminium motor

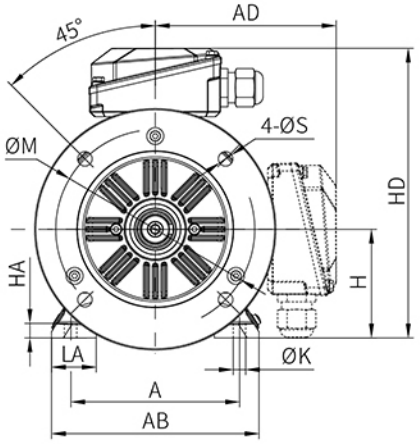
Frame	Poles	Mounting dimensions (mm)									Boundary dimension(mm)								
		A	B	C	D	E	F	G	H	K	LA	LB	AB	BB	HA	AC	AD	HD	L
90S	2~6	140	100	56	24	50	8	20	90	4-10*12	39.5	16.6	172	150	13	177	149	244	329
90L	2~6	140	125	56	24	50	8	20	90	4-10*12	39.5	16.6	172	175	13	177	149	244	351
100L	2~6	160	140	63	28	60	8	24	100	4-12*14	46.5	19	200	198	13	208	163	268	401
112M	2~6	190	140	70	28	60	8	24	112	4-12*14	56.5	19	228	201	15	226	189	305	417
132S	2~6	216	140	89	38	80	10	33	132	4-12*14	60	45	262	230	18	260	210	345	450
132M	4,6	216	178	89	38	80	10	33	132	4-12*14	60	36	262	250	18	260	210	345	490
160M	2~6	254	210	108	42	110	12	37	160	4-14.5*16.5	69.5	27	314	280	20	320	260	422	620
160L	2~6	254	254	108	42	110	12	37	160	4-14.5*16.5	69.5	27	314	324	20	320	260	422	665

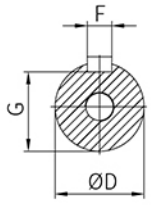
Foot & D Flange (B35) mounted - frame sizes 80 to 355

IM B35
IM 2001
H80~H100

H80M and 90S without eyebolt

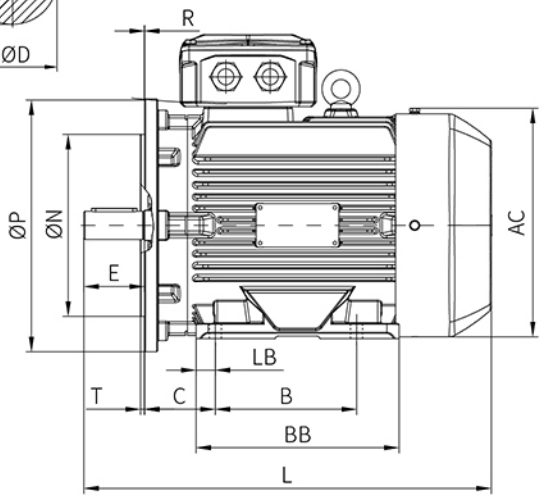


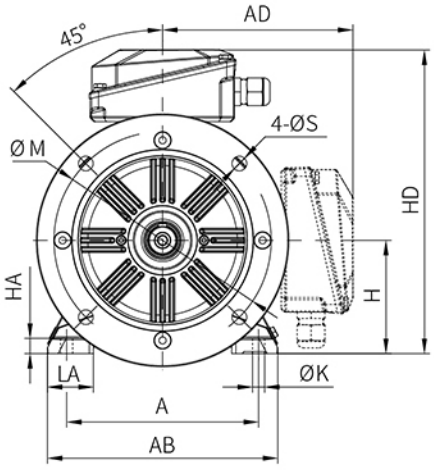




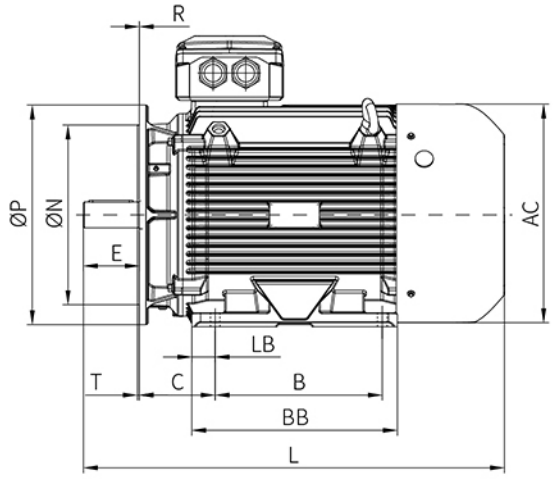
IM B35
IM 2001
H112~H200

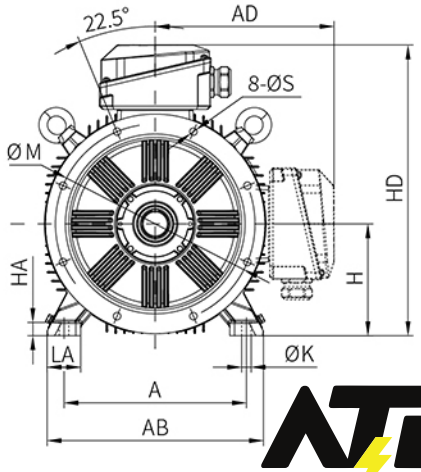
H200 and above couple with double eyebolts





IM B35
IM 2001
H225~H355





Technology in Motion

Foot & D Flange (B35) mounted, cast iron motor

Frame	Poles	Mounting dimensions and tolerances (mm)															Boundary dimension(mm)								
		A	B	C	D	E	F	G	H	K	M	N	P	R	S	T	LA	LB	AB	BB	HA	AC	AD	HD	L
80M	2~8	125	100	50	19	40	6	15.5	80	10	165	130	200	0±1.5	12	3.5	32	15	157	146	10	163	136	221	320
90S	2~8	140	100	56	24	50	8	20	90	10	165	130	200	0±1.5	12	3.5	37	16.6	172	153	12	177	149	244	345
90L	2~8	140	125	56	24	50	8	20	90	10	165	130	200	0±1.5	12	3.5	37	16.6	172	175	12	177	149	244	370
100L	2~8	160	140	63	28	60	8	24	100	12	215	180	250	0±2.0	14.5	4	45	19	200	198	15	208	163	268	420
112M	2~8	190	140	70	28	60	8	24	112	12	215	180	250	0±2.0	14.5	4	45	19	228	201	15	226	189	305	465
132S	2~8	216	140	89	38	80	10	33	132	12	265	230	300	0±2.0	14.5	4	56.5	21.5	262	184	18	260	210	345	450
132M	4~8	216	178	89	38	80	10	33	132	12	265	230	300	0±2.0	14.5	4	56.5	21.5	262	222	18	260	210	345	490
160M	2~8	254	210	108	42	110	12	37	160	14.5	300	250	350	0±3.0	18.5	5	65	27	314	280	20	320	260	422	620
160L	2~8	254	254	108	42	110	12	37	160	14.5	300	250	350	0±3.0	18.5	5	65	27	314	324	20	320	260	422	665
180M	2,4	279	241	121	48	110	14	42.5	180	14.5	300	250	350	0±3.0	18.5	5	68	26.5	349	297	22	360	279	463	735
180L	4~8	279	279	121	48	110	14	42.5	180	14.5	300	250	350	0±3.0	18.5	5	68	26.5	349	335	22	360	279	463	770
200L	2~8	318	305	133	55	110	16	49	200	18.5	350	300	400	0±3.0	18.5	5	84	30	388	380	25	396	321	526	845
225S	4,8	356	286	149	60	140	18	53	225	18.5	400	350	450	0±4.0	18.5	5	84	43	431	368	28	442	345	570	900
225M	2	356	311	149	55	110	16	49	225	18.5	400	350	450	0±4.0	18.5	5	84	30.5	431	368	28	442	345	570	900
225M	4~8	356	311	149	60	140	18	53	225	18.5	400	350	450	0±4.0	18.5	5	84	30.5	431	368	28	442	345	570	925
250M	2	406	349	168	60	140	18	53	250	24	500	450	550	0±4.0	18.5	5	80	43	484	421	30	488	421	671	950
250M	4~8	406	349	168	65	140	18	58	250	24	500	450	550	0±4.0	18.5	5	80	43	484	421	30	488	421	671	950
280S	2	457	368	190	65	140	18	58	280	24	500	450	550	0±4.0	18.5	5	84	55	542	460	35	547	449	728	1007
280S	4~8	457	368	190	75	140	20	67.5	280	24	500	450	550	0±4.0	18.5	5	84	55	542	460	35	547	449	728	1007
280M	2	457	419	190	65	140	18	58	280	24	500	450	550	0±4.0	18.5	5	84	58.5	542	515	35	547	449	728	1055
280M	4~8	457	419	190	75	140	20	67.5	280	24	500	450	550	0±4.0	18.5	5	84	58.5	542	515	35	547	449	728	1055
315S	2	508	406	216	65	140	18	58	315	28	600	550	660	0±4.0	24	6	115	46	628	540	40	631	507	822	1190
315S	4~8	508	406	216	80	170	22	71	315	28	600	550	660	0±4.0	24	6	115	46	628	540	40	631	507	822	1220
315M	2	508	457	216	65	140	18	58	315	28	600	550	660	0±4.0	24	6	115	46	628	640	40	631	507	822	1290
315M	4~8	508	457	216	80	170	22	71	315	28	600	550	660	0±4.0	24	6	115	46	628	640	40	631	507	822	1320
315L	2	508	508	216	65	140	18	58	315	28	600	550	660	0±4.0	24	6	115	46	628	640	40	631	507	822	1290
315L	4~8	508	508	216	80	170	22	71	315	28	600	550	660	0±4.0	24	6	115	46	628	640	40	631	507	822	1320
355M	2	610	560	254	75	140	20	67.5	355	28	740	680	800	0±4.0	24	6	146	40.5	740	700	45	709	644	999	1432
355M	4~8	610	560	254	95	170	25	86	355	28	740	680	800	0±4.0	24	6	146	40.5	740	700	45	709	644	999	1462
355L	2	610	630	254	75	140	20	67.5	355	28	740	680	800	0±4.0	24	6	146	49	740	887	45	709	644	999	1602
355L	4~8	610	630	254	95	170	25	86	355	28	740	680	800	0±4.0	24	6	146	49	740	887	45	709	644	999	1632
3551	2	610	630	254	75	140	20	67.5	355	28	740	680	800	0±4.0	24	6	146	49	740	887	45	709	644	999	1602
3551	4,6	610	630	254	95	170	25	86	355	28	740	680	800	0±4.0	24	6	146	49	740	887	45	709	644	999	1632

Foot & D Flange (B35) mounted , cast iron motor

Frame	Poles	Mounting dimensions and tolerances (mm)															Boundary dimension(mm)								
		A	B	C	D	E	F	G	H	K	M	N	P	R	S	T	LA	LB	AB	BB	HA	AC	AD	HD	L
80M	2~8	125	100	50	19	40	6	15.5	80	10	165	130	200	0±1.5	12	3.5	32	15	157	146	10	163	136	221	299
90S	2~8	140	100	56	24	50	8	20	90	10	165	130	200	0±1.5	12	3.5	37	16.6	172	153	12	177	149	244	329
90L	2~8	140	125	56	24	50	8	20	90	10	165	130	200	0±1.5	12	3.5	37	16.6	172	175	12	177	149	244	351
100L	2~8	160	140	63	28	60	8	24	100	12	215	180	250	0±2.0	14.5	4	45	19	200	198	15	208	163	268	401
112M	2~8	190	140	70	28	60	8	24	112	12	215	180	250	0±2.0	14.5	4	45	19	228	201	15	226	189	305	417
132S	2~8	216	140	89	38	80	10	33	132	12	265	230	300	0±2.0	14.5	4	56.5	21.5	262	184	18	252	203	340	454
132M	4~8	216	178	89	38	80	10	33	132	12	265	230	300	0±2.0	14.5	4	56.5	21.5	262	222	18	252	203	340	492
160M	2~8	254	210	108	42	110	12	37	160	14.5	300	250	350	0±3.0	18.5	5	65	46	314	280	20	318	256	421	590
160L	2~8	254	254	108	42	110	12	37	160	14.5	300	250	350	0±3.0	18.5	5	65	46	314	324	20	318	256	421	634
180M	2,4	279	241	121	48	110	14	42.5	180	14.5	300	250	350	0±3.0	18.5	5	68	26.5	349	297	22	360	279	463	655
180L	4~8	279	279	121	48	110	14	42.5	180	14.5	300	250	350	0±3.0	18.5	5	68	26.5	349	335	22	360	279	463	693
200L	2~8	318	305	133	55	110	16	49	200	18.5	350	300	400	0±3.0	18.5	5	84	30	388	380	25	396	321	526	796
225S	4	356	286	149	60	140	18	53	225	18.5	400	350	450	0±4.0	18.5	5	84	43	431	368	28	442	345	570	846
225M	2	356	311	149	55	110	16	49	225	18.5	400	350	450	0±4.0	18.5	5	84	30.5	431	368	28	442	345	570	841
225M	4~8	356	311	149	60	140	18	53	225	18.5	400	350	450	0±4.0	18.5	5	84	30.5	431	368	28	442	345	570	841
250M	2	406	349	168	60	140	18	53	250	24	500	450	550	0±4.0	18.5	5	80	43	484	421	30	488	421	671	929
250M	4~8	406	349	168	65	140	18	58	250	24	500	450	550	0±4.0	18.5	5	80	43	484	421	30	488	421	671	929
280S	2	457	368	190	65	140	18	58	280	24	500	450	550	0±4.0	18.5	5	84	55	542	460	35	547	449	728	1007
280S	4~8	457	368	190	75	140	20	67.5	280	24	500	450	550	0±4.0	18.5	5	84	55	542	460	35	547	449	728	1007
280M	2	457	419	190	65	140	18	58	280	24	500	450	550	0±4.0	18.5	5	84	58.5	542	515	35	547	449	728	1055
280M	4~8	457	419	190	75	140	20	67.5	280	24	500	450	550	0±4.0	18.5	5	84	58.5	542	515	35	547	449	728	1055
315S	2	508	406	216	65	140	18	58	315	28	600	550	660	0±4.0	24	6	115	46	628	540	40	631	507	822	1190
315S	4~8	508	406	216	80	170	22	71	315	28	600	550	660	0±4.0	24	6	115	46	628	540	40	631	507	822	1220
315M	2	508	457	216	65	140	18	58	315	28	600	550	660	0±4.0	24	6	115	46	628	640	40	631	507	822	1290
315M	4~8	508	457	216	80	170	22	71	315	28	600	550	660	0±4.0	24	6	115	46	628	640	40	631	507	822	1320
315L	2	508	508	216	65	140	18	58	315	28	600	550	660	0±4.0	24	6	115	46	628	640	40	631	507	822	1290
315L	4~8	508	508	216	80	170	22	71	315	28	600	550	660	0±4.0	24	6	115	46	628	640	40	631	507	822	1320
355M	2	610	560	254	75	140	20	67.5	355	28	740	680	800	0±4.0	24	6	146	40.5	740	700	45	709	644	999	1432
355M	4~8	610	560	254	95	170	25	86	355	28	740	680	800	0±4.0	24	6	146	40.5	740	700	45	709	644	999	1462
355L	2	610	630	254	75	140	20	67.5	355	28	740	680	800	0±4.0	24	6	146	49	740	887	45	709	644	999	1602
355L	4~8	610	630	254	95	170	25	86	355	28	740	680	800	0±4.0	24	6	146	49	740	887	45	709	644	999	1632
3551/3552	2	610	630	254	75	140	20	67.5	355	28	740	680	800	0±4.0	24	6	146	49	740	887	45	709	644	999	1602
3551/3552	4~8	610	630	254	95	170	25	86	355	28	740	680	800	0±4.0	24	6	146	49	740	887	45	709	644	999	1632

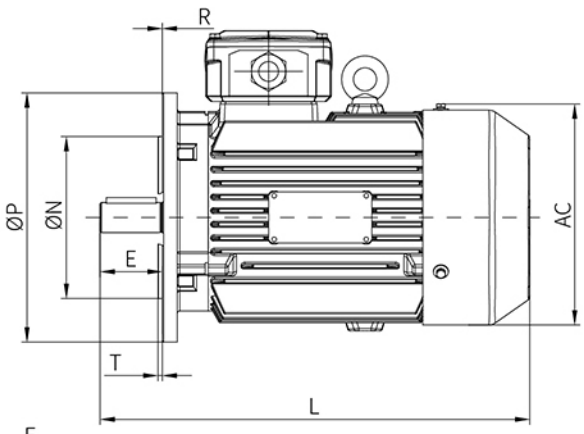
Foot (B35) mounted , aluminium motor

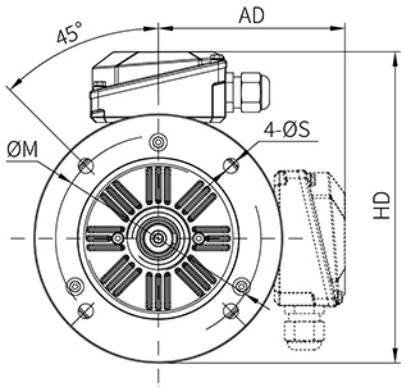
Frame	Poles	Mounting dimensions and tolerances (mm)															Boundary dimension(mm)								
		A	B	C	D	E	F	G	H	K	M	N	P	R	S	T	LA	LB	AB	BB	HA	AC	AD	HD	L
90S	2~6	140	100	56	24	50	8	20	90	4-10*12	165	130	200	0±1.5	12	3.5	39.5	16.6	172	150	13	177	149	244	329
90L	2~6	140	125	56	24	50	8	20	90	4-10*12	165	130	200	0±1.5	12	3.5	39.5	16.6	172	175	13	177	149	244	351
100L	2~6	160	140	63	28	60	8	24	100	4-12*14	215	180	250	0±2.0	14.5	4	46.5	19	200	198	13	208	163	268	401
112M	2~6	190	140	70	28	60	8	24	112	4-12*14	215	180	250	0±2.0	14.5	4	56.5	19	228	201	15	226	189	305	417
132S	2~6	216	140	89	38	80	10	33	132	4-12*14	265	230	300	0±2.0	14.5	4	60	45	262	230	18	260	210	345	450
132M	4,6	216	178	89	38	80	10	33	132	4-12*14	265	230	300	0±2.0	14.5	4	60	36	262	250	18	260	210	345	490
160M	2~6	254	210	108	42	110	12	37	160	4-14.5*16.5	300	250	350	0±3.0	18.5	5	69.5	27	314	280	20	320	260	422	620
160L	2~6	254	254	108	42	110	12	37	160	4-14.5*16.5	300	250	350	0±3.0	18.5	5	69.5	27	314	324	20	320	260	422	665

D Flange, horizontal (B5) mounted - frame sizes 80 to 280 / D Flange, shaft down (V1) mounted - frame sizes 80 to 355

IM B5/IM V1
IM 3001/IM 3011
H80~H100

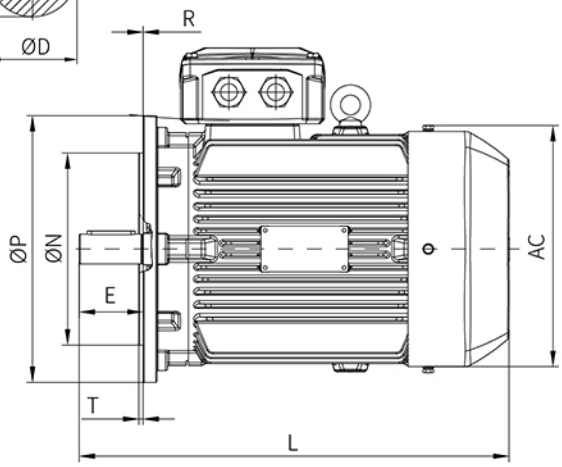
H80M and 90S without eyebolt

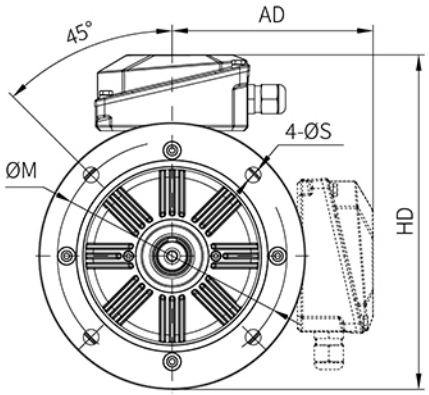




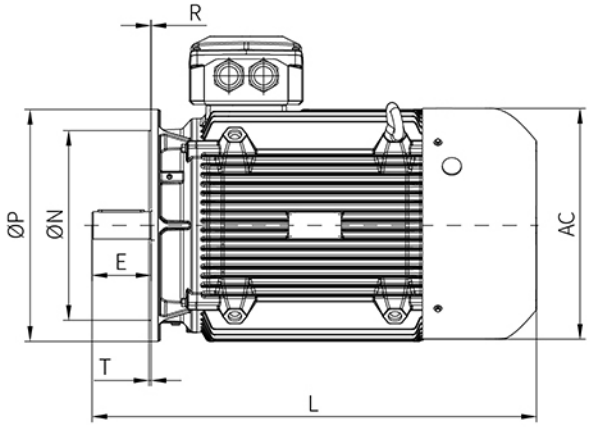
IM B5/IM V1
IM 3001/IM 3011
H112~H200

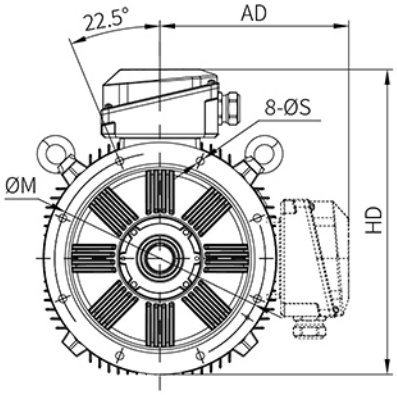
H200 and above couple with double eyebolts





IM B5/IM V1
IM 3001/IM 3011
H225~H355





Technology in Motion

D Flange, horizontal (B5)/shaft down (V1) mounted ,cast iron

Frame	Poles	Mounting dimensions and tolerances (mm)										Boundary dimension(mm)			
		D	E	F	G	M	N	P	R	S	T	AC	AD	HD	L
80M	2~8	19	40	6	15.5	165	130	200	0±1.5	12	3.5	163	136	221	320
90S	2~8	24	50	8	20	165	130	200	0±1.5	12	3.5	177	149	244	345
90L	2~8	24	50	8	20	165	130	200	0±1.5	12	3.5	177	149	244	370
100L	2~8	28	60	8	24	215	180	250	0±2.0	14.5	4	208	163	268	420
112M	2~8	28	60	8	24	215	180	250	0±2.0	14.5	4	226	189	305	465
132S	2~8	38	80	10	33	265	230	300	0±2.0	14.5	4	260	210	345	450
132M	4~8	38	80	10	33	265	230	300	0±2.0	14.5	4	260	210	345	490
160M	2~8	42	110	12	37	300	250	350	0±3.0	18.5	5	320	260	422	620
160L	2~8	42	110	12	37	300	250	350	0±3.0	18.5	5	320	260	422	665
180M	2,4	48	110	14	42.5	300	250	350	0±3.0	18.5	5	360	279	463	735
180L	4~8	48	110	14	42.5	300	250	350	0±3.0	18.5	5	360	279	463	770
200L	2~8	55	110	16	49	350	300	400	0±3.0	18.5	5	396	321	526	845
225S	4,8	60	140	18	53	400	350	450	0±4.0	18.5	5	442	345	580	900
225M	2	55	110	16	49	400	350	450	0±4.0	18.5	5	442	345	580	900
225M	4~8	60	140	18	53	400	350	450	0±4.0	18.5	5	442	345	580	925
250M	2	60	140	18	53	500	450	550	0±4.0	18.5	5	488	446	671	950
250M	4~8	65	140	18	58	500	450	550	0±4.0	18.5	5	488	446	671	950
280S	2	65	140	18	58	500	450	550	0±4.0	18.5	5	547	449	723	1007
280S	4~8	75	140	20	67.5	500	450	550	0±4.0	18.5	5	547	449	723	1007
280M	2	65	140	18	58	500	450	550	0±4.0	18.5	5	547	449	723	1055
280M	4~8	75	140	20	67.5	500	450	550	0±4.0	18.5	5	547	449	723	1055
315S	2	65	140	18	58	600	550	660	0±4.0	24	6	631	507	850	1190
315S	4~8	80	170	22	71	600	550	660	0±4.0	24	6	631	507	850	1220
315M	2	65	140	18	58	600	550	660	0±4.0	24	6	631	507	850	1290
315M	4~8	80	170	22	71	600	550	660	0±4.0	24	6	631	507	850	1320
315L	2	65	140	18	58	600	550	660	0±4.0	24	6	631	507	850	1290
315L	4~8	80	170	22	71	600	550	660	0±4.0	24	6	631	507	850	1320
355M	2	75	140	20	67.5	740	680	800	0±4.0	24	6	709	644	1044	1432
355M	4~8	95	170	25	86	740	680	800	0±4.0	24	6	709	644	1044	1462
355L	2	75	140	20	67.5	740	680	800	0±4.0	24	6	709	644	1044	1602
355L	4~8	95	170	25	86	740	680	800	0±4.0	24	6	709	644	1044	1632
3551	2	75	140	20	67.5	740	680	800	0±4.0	24	6	709	644	1044	1602
3551	4,6	95	170	25	86	740	680	800	0±4.0	24	6	709	644	1044	1632

D Flange, horizontal (B5)/shaft down (V1) mounted ,cast iron

Frame	Poles	Mounting dimensions and tolerances (mm)										Boundary dimension(mm)			
		D	E	F	G	M	N	P	R	S	T	AC	AD	HD	L
80M	2~8	19	40	6	15.5	165	130	200	0±1.5	12	3.5	163	136	241	299
90S	2~8	24	50	8	20	165	130	200	0±1.5	12	3.5	177	149	254	329
90L	2~8	24	50	8	20	165	130	200	0±1.5	12	3.5	177	149	254	351
100L	2~8	28	60	8	24	215	180	250	0±2.0	14.5	4	208	163	293	401
112M	2~8	28	60	8	24	215	180	250	0±2.0	14.5	4	226	189	318	417
132S	2~8	38	80	10	33	265	230	300	0±2.0	14.5	4	252	203	358	454
132M	4~8	38	80	10	33	265	230	300	0±2.0	14.5	4	252	203	358	492
160M	2~8	42	110	12	37	300	250	350	0±3.0	18.5	5	318	256	436	590
160L	2~8	42	110	12	37	300	250	350	0±3.0	18.5	5	318	256	436	634
180M	2,4	48	110	14	42.5	300	250	350	0±3.0	18.5	5	360	279	458	655
180L	4~8	48	110	14	42.5	300	250	350	0±3.0	18.5	5	360	279	458	693
200L	2~8	55	110	16	49	350	300	400	0±3.0	18.5	5	396	321	526	796
225S	4	60	140	18	53	400	350	450	0±4.0	18.5	5	442	345	580	846
225M	2	55	110	16	49	400	350	450	0±4.0	18.5	5	442	345	580	841
225M	4~8	60	140	18	53	400	350	450	0±4.0	18.5	5	442	345	580	871
250M	2	60	140	18	53	500	450	550	0±4.0	18.5	5	488	421	696	929
250M	4~8	65	140	18	58	500	450	550	0±4.0	18.5	5	488	421	696	929
280S	2	65	140	18	58	500	450	550	0±4.0	18.5	5	547	449	723	1007
280S	4~8	75	140	20	67.5	500	450	550	0±4.0	18.5	5	547	449	723	1007
280M	2	65	140	18	58	500	450	550	0±4.0	18.5	5	547	449	723	1055
280M	4~8	75	140	20	67.5	500	450	550	0±4.0	18.5	5	547	449	723	1055
315S	2	65	140	18	58	600	550	660	0±4.0	24	6	631	507	850	1190
315S	4~8	80	170	22	71	600	550	660	0±4.0	24	6	631	507	850	1220
315M	2	65	140	18	58	600	550	660	0±4.0	24	6	631	507	850	1290
315M	4~8	80	170	22	71	600	550	660	0±4.0	24	6	631	507	850	1320
315L	2	65	140	18	58	600	550	660	0±4.0	24	6	631	507	850	1290
315L	4~8	80	170	22	71	600	550	660	0±4.0	24	6	631	507	850	1320
355M	2	75	140	20	67.5	740	680	800	0±4.0	24	6	709	644	1044	1432
355M	4~8	95	170	25	86	740	680	800	0±4.0	24	6	709	644	1044	1462
355L	2	75	140	20	67.5	740	680	800	0±4.0	24	6	709	644	1044	1602
355L	4~8	95	170	25	86	740	680	800	0±4.0	24	6	709	644	1044	1632
3551/3552	2	75	140	20	67.5	740	680	800	0±4.0	24	6	709	644	1044	1602
3551/3552	4~8	95	170	25	86	740	680	800	0±4.0	24	6	709	644	1044	1632

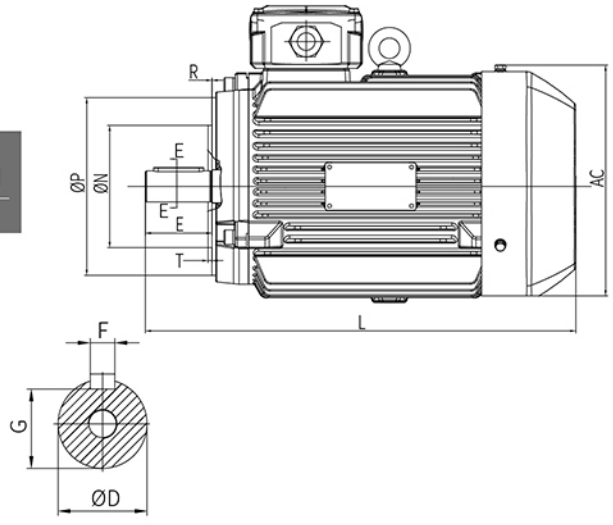
D Flange, horizontal (B5)/shaft down (V1) mounted ,aluminium

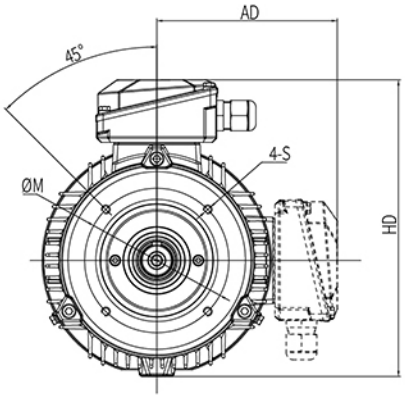
Frame	Poles	Mounting dimensions and tolerances (mm)										Boundary dimension(mm)			
		D	E	F	G	M	N	P	R	S	T	AC	AD	HD	L
90S	2~6	24	50	8	20	165	130	200	0±1.5	12	3.5	177	149	254	329
90L	2~6	24	50	8	20	165	130	200	0±1.5	12	3.5	177	149	254	351
100L	2~6	28	60	8	24	215	180	250	0±2.0	14.5	4	208	163	293	401
112M	2~6	28	60	8	24	215	180	250	0±2.0	14.5	4	226	189	315	417
132S	2~6	38	80	10	33	265	230	300	0±2.0	14.5	4	260	210	363	450
132M	4,6	38	80	10	33	265	230	300	0±2.0	14.5	4	260	210	363	490
160M	2~6	42	110	12	37	300	250	350	0±3.0	18.5	5	320	260	437	620
160L	2~6	42	110	12	37	300	250	350	0±3.0	18.5	5	320	260	437	665

C Face, horizontal (B14) / shaft down (V18) mounted - frame sizes 80 to 112 cast iron motor

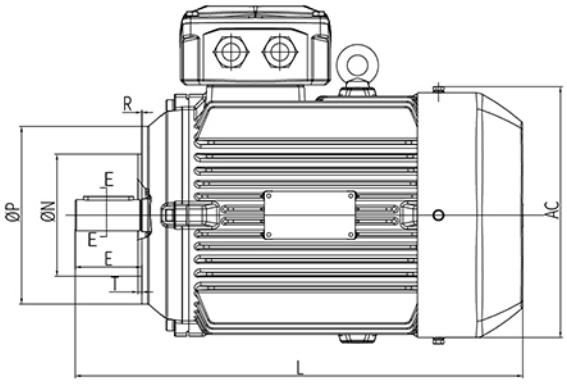
IM B14/IM V18
IM 3601/IM 3611
H80~H100

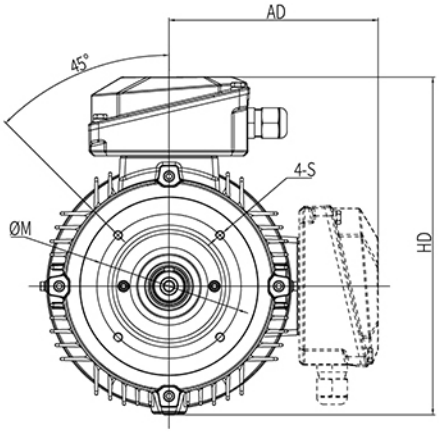
80M & 90S eyebolt not fitted





IM B14/IM V18
IM 3601/IM 3611
H112



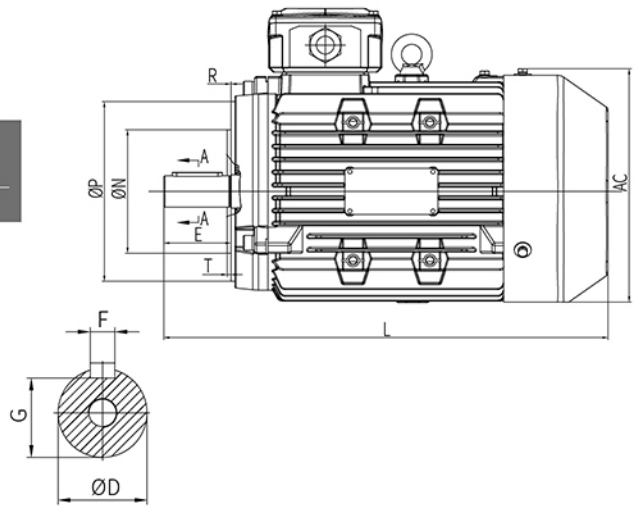


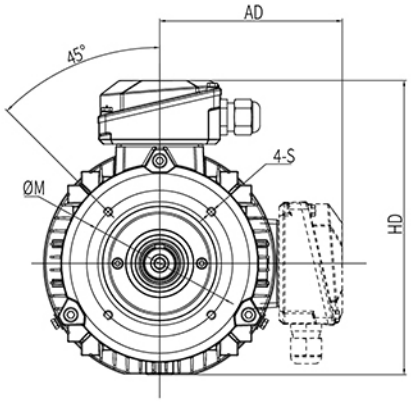
Frame	Poles	B14 / V18 Mounting dimensions (mm)										Boundary dimension (mm)			
		ØD	E	F	G	ØM	ØN	ØP	R	S	T	AC	AD	HD	L
80M	2~8	19	40	6	15.5	100	80	120	0±1.5	M6	3	163	147	230	299
90S	2~8	24	50	8	20	115	95	140	0±1.5	M8	3	177	153	249	329
90L	2~8	24	50	8	20	115	95	140	0±1.5	M8	3	177	153	249	351
100L	2~8	28	60	8	24	130	110	160	0±1.5	M8	3.5	208	167	274	401
112M	2~8	28	60	8	24	130	110	160	0±1.5	M8	3.5	226	187	308	417

C Face,horizontal(B14)/shaft down(V18)mounted - frame sizes 90 to 112 aluminium motor

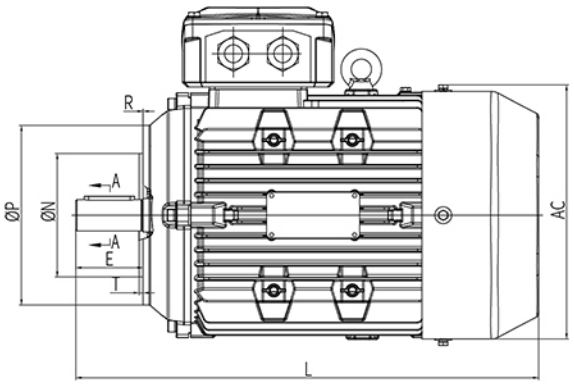
IMB14/IMV18
IM3601/IM3611
H90~H100

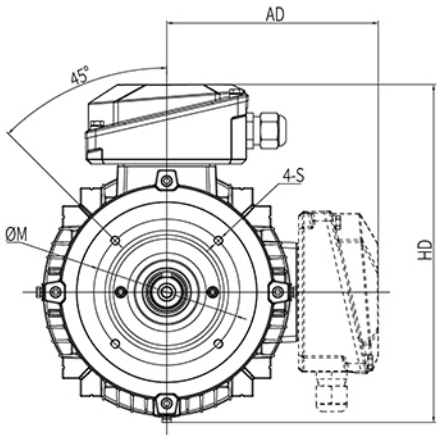
90S eyebolt not fitted





IMB14/IMV18
IM3601/IM3611
H112





Frame	Poles	Mounting dimensions and tolerances (mm)										Boundary dimension(mm)			
		ØD	E	F	G	ØM	ØN	ØP	R	S	T	AC	AD	HD	L
90S	2~6	24	50	8	20	115	95	140	0±1.5	M8	3	177	153	249	329
90L	2~6	24	50	8	20	115	95	140	0±1.5	M8	3	177	153	249	351
100L	2~6	28	60	8	24	130	110	160	0±1.5	M8	3.5	208	167	274	401
112M	2~6	28	60	8	24	130	110	160	0±1.5	M8	3.5	226	187	308	417

Mounting arrangements

Basic structural type	With foot, endshield without flange					
Mounting type code	B3	B6	B7	B8	V5	V6
Schematic diagram						
Frame	H80~H355	H80~H160				

Basic structural type	Without foot, endshield with flange			With foot, endshield with flange		
Mounting type code	B5	V1	V3	B35	V15	V36
Schematic diagram						
Frame	H80~H280	H80~H355	H80~H160	H80~H355	H80~H160	

Basic structural type	Without foot, endshield with a small flange		With foot, endshield with a small flange
Mounting type code	B14	V18	B34
Schematic diagram			
Frame	H80~H112		

Level of protection

WE series standard protection grade is IP55, IP56, IP65, IP66 and other protection grades can be customized according to customer requirements.
The protection level of the shell is mainly to prevent electric shock to human body or close to live parts or rotating parts, to prevent solid foreign matter from entering and to prevent harmful effects caused by water and oil, The code name and meaning of the protection form is shown in the table below.

Code	Meaning	First digit	Meaning	Second-order digit	Meaning
IP	Level of protection	5	Dust prevention	5	Prevent water spray
		6	Dust tight	6	Prevent strong spraying of water

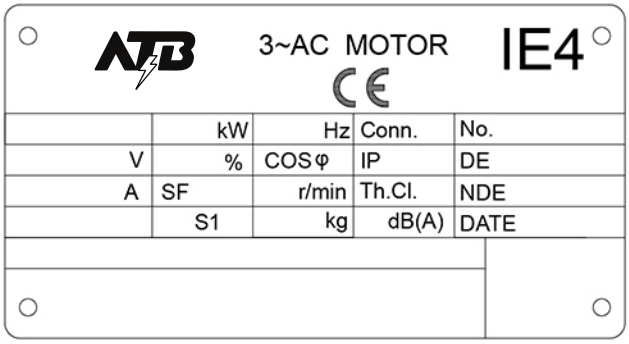
Insulation grade and temperature rise limit

WE series adopts F grade insulation, and the temperature rise is assessed as B grade. Nano-insulation impregnating resin can be selected to further improve the service life in the power supply environment and service environment.

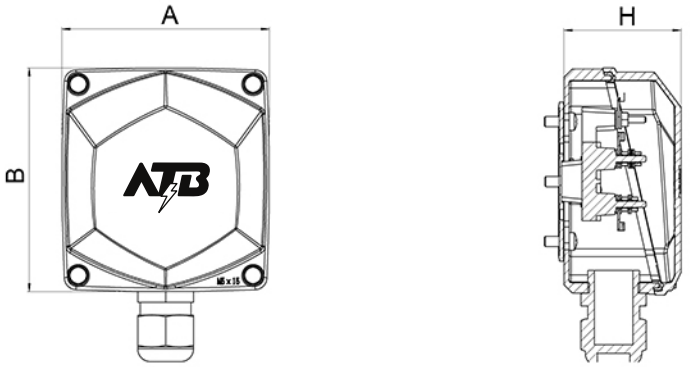
In order to run the motor reliably, insulation materials are needed to separate the live parts from the enclosure or live parts. Motor as an energy conversion or signal conversion element. There is energy loss in the process of operation itself, a portion of the energy losses caused by temperature rise from itself. Under the general condition, insulation class, suffering the most from extreme temperatures and the resistance method is used to measure the motor temperature rise limit between comply with the following table, the temperature rise limit within the motor should be able to work properly.

Insulation grade	Limited temperature°C	The temperature rise limit K
B	130	80
F	155	105
H	180	125

Nameplate sample



Terminal box



Frame	Boundary dimension AxBxH (mm)	Number and size of outlets	Diameter of single hole screw sleeve can lock the cable (mm)	Thread of terminal
H80	90x96x50	1-M25x1.5	Φ8~Φ12	M4
H90~H100	102x110x57.5	1-M25x1.5	Φ8~Φ12	M4
H112~H132	136x146x72	2-M25x1.5	Φ8~Φ12	M5
H160~H180	171x181x91	2-M32x1.5	Φ16~Φ21	M6
H200~H225	220x230x113	2-M50x1.5	Φ32~Φ39	M8
H250~H280	270x280x162	2-M63x1.5	Φ37~Φ44	M10
H315	312x329x175	2-M63x1.5	Φ37~Φ44	M12
H355	382x402x200	2-M72x2	Φ45~Φ53	M16

Lifting ring

Frame	Lifting ring	Horizontal mounting	
		Quantity	Location
H80~H90S	---	---	---
H90L~H112	M8	1	Top
H132	M10	1	
H160	M12	1	
H180	M16	1	
H200~H225	M20	2	Top,both sides of terminal box
H250~H280	M24	2	
H315	M30	2	Left front and right rear view from shaft end
H355	M36	2	

Bearing type for aluminum motor

Frame	Poles	DE	NDE
H90	2~6	6205ZZ	6203ZZ
H100	2~6	6206ZZ	6205ZZ
H112	2~6	6206ZZ	6206ZZ
H132	2~6	6208ZZ	6208ZZ
H160	2~6	6309ZZ	6309ZZ

Technology in Motion

Bearing type for cast iron motor(WE2&WE3 series)

Frame	Poles	DE	NDE	Frame	Poles	DE	NDE
H80	2~8	6204ZZ	6204ZZ	H225	4~8	6313	6312
H90	2~8	6205ZZ	6203ZZ	H250	2	6313	6313
H100	2~8	6206ZZ	6205ZZ	H250	4~8	6314	6313
H112	2~8	6206ZZ	6206ZZ	H280	2	6314	6314
H132	2~8	6208ZZ	6305ZZ	H280	4~8	6317	6314
H160	2~8	6309ZZ	6307ZZ	H315	2	6317	6317
H180	2~8	6310ZZ	6308ZZ	H315	4~8	6319	6319
H200	2~8	6312	6212	H355	2	6319	6319
H225	2	6312	6312	H355	4~8	6322	6322

Note:ZZ - Double shielded bearings.

The table above shows standard bearing sizes, alternative bearings are available if required.

Bearing type for cast iron motor(WE4 series)

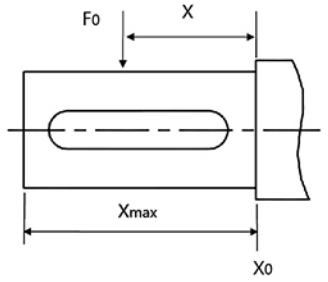
Frame	Poles	DE	NDE
H80	2~8	6204ZZ	6204ZZ
H90	2~8	6205ZZ	6205ZZ
H100	2~8	6206ZZ	6206ZZ
H112	2~8	6206ZZ	6206ZZ
H132	2~8	6208ZZ	6208ZZ
H160	2~8	6309ZZ	6309ZZ
H180	2~8	6310ZZ	6310ZZ
H200	2~8	6312	6312
H225	2	6312	6312
H225	4~8	6313	6312
H250	2	6313	6313
H250	4~8	6314	6313
H280	2	6314	6314
H280	4~8	6317	6314
H315	2	6317	6317
H315	4~8	6319	6319
H355	2	6319	6319
H355	4~8	6322	6322

Permissible forces at the shaft end

Maximum radial force (for pulley drive system): The maximum allowable radial force F0(unit: N) for radial load is based on the premise that the load line (center of pulley) must be within the length of the motor shaft extension (the motor shaft elongation is shown in the installation size code E size). The radial force length X (mm) is the distance from the axial extension shoulder to the radial force F0 action line, so when the length X= Max, it is the total length of the axial extension (size value E). Maximum allowable radial force as below table.

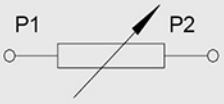
Frame	Radial force F0 (N)							
	2P		4P		6P		8P	
	X=0	X=max	X=0	X=max	X=0	X=max	X=0	X=max
H80	720	600	760	630	860	720	980	820
H90	780	650	810	670	940	780	1060	880
H100	1100	900	1110	910	1310	1070	1480	1210
H112	1090	900	1080	890	1290	1060	1460	1200
H132	1730	1360	1740	1400	2000	1610	2330	1880
H160	2950	2330	3050	2410	3420	2700	3870	3060
H180	3420	2740	3460	2820	4080	3320	4430	3610
H200	4390	3640	4500	3730	5270	4370	5790	4800
H225	4340	3620	5050	4030	5870	4690	6470	5170
H250	4910	4000	5710	4650	6520	5310	7180	5840
H280	5380	4500	6870	5750	8090	6770	9120	7630
H315	6400	5550	7500	6310	8420	7080	9120	7670
H355	6770	6070	8620	7560	9910	8690	11590	10160

Permissible radial force Frame sizes 80~355



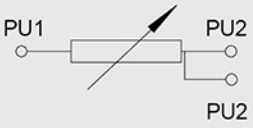
Thermal protection device is optional for WE series.

Thermistor PTC

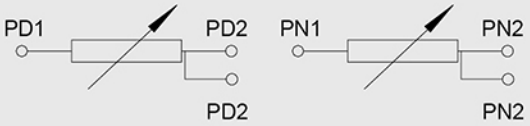
Name	PTC thermistor
Type	MZ6 160 D
Application	Motor overheating protection
Operating temperature and accuracy	160 ±5°C
Set position	1 in each phase, in series, at the highest temperature point embedded at the end of the winding at the drive end
Connection	Three components in series, two leads to the terminal box.
Color and marking of wiring	P1 & P2
Wiring diagram	
Frame	80 to 355

Note :(1) PTC operating temperature can be customized according to specifications
(2) PTO thermosensitive bimetal switch can be used according to specifications.

Winding Resistant Temperature Detector (RTD)

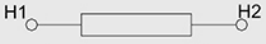
Name	Platinum Resistant Temperature Detector (RTD)
Type	PT100, three leads
Application	Motor winding temperature detection, high temperature protection
0°C resistance and precision	100± 0.12Ω (Class B tolerances)
Set position	1 in each phase, at the highest temperature point embedded at the end of the winding at the drive end
Connection	Each component has three lead wires to the terminal box
Lead Markings	U — PU1, PU2, PU2 ; V— PVl, PV2, PV2; W— PWl, PW2, PW2. If there are two elements in each phase winding, the lead of the other element is marked as: U— PU3, PU4 , PU4 ; V— PV3, PV4, PV4 ; W— PW3, PW4, PW4
Wiring diagram	
Frame	160 to 355

Bearing Resistant Temperature Detector (RTD)

Name	Platinum Resistant Temperature Detector (RTD)
Type	WZP-M, three leads, sealed metal body
Application	Motor winding temperature detection, over temperature protection
0°C resistance and precision	100± 0.12Ω (Class B tolerances)
Quantity	One per bearing
Set position	Embedded inside the endshield, the face of the sensor must contact the outer ring of the bearing
Connection	Each component has three lead wires to the terminal box.
Lead Markings	drive-end bearing (D E) — PDl, PD2, PD2 ; non-driven-end bearing (NDE) — PNl, PN2, PN2 If two elements are used for each end of the bearing, the lead of the other element is marked as: drive-end bearing (D E) - PD3, PD4, PD4 ; non-driven-end bearing (NDE) - PN3, PN4, Pn4
Wiring diagram	
Frame sizes	160 to 355

According to temperature measuring elements , K or T type thermocouples can be fitted as an alternative.

Anti-condensation heater

Name	Anti-condensation heater										
Application	Prevent condensation within the motor, which would lead to low insulation resistance										
Temperature resistance of insulating material	≥250°C										
Rated voltage	AC single-phase, 220 - 240V (order schedule)										
Set position	Bound to the winding overhang										
Connection	Two lead wires to the terminal box										
lead Marking	H1 & H2										
Wiring diagram											
Frame	100	112	132	160	180	200	225	250	280	315	355
Rated wattage of each heating belt	30	30	40	40	50	50	60	60	60	80	110
Quantity	1	1	1	1	1	1	1	1	1	2	2

Terminal device of protective equipment

- When the motor is installed with PTC or PTO, its wiring shall be in the main terminal box with eight-post terminal board.
- When the winding or bearing of motor is loaded with PT100, its wiring is arranged in an independent auxiliary terminal box and equipped with terminal bank;
- When the motor is only equipped with winding heating belt, its wiring is on the wall of the main terminal box. (d) When the motor is assembled with heating belt and PT100, the heating belt shall be connected on the wall of the main terminal box, and the PT100 connection shall be located in an independent auxiliary terminal box with terminal bar.
- When the motor is assembled with heating belt and PTC, the heating belt shall be connected on the wall of the main terminal box, and the PTC shall be connected on the eight-column terminal board of the main terminal box.

The following factors should be taken into account in motor selection:

- Voltage: 380 V, 660 V, 400 V, 690 V, etc.
- Frequency: 50 Hz, 60 Hz, etc.
- Mounting type: IMB3, IMB35, etc.
- Operating environment: Indoor, outdoor, ambient temperature, altitude
- Protection grade: IP55 or IP56
- Equipment type and moment of inertia of load
- Connection mode between the motor and load
- Start mode, start frequency, start voltage drop, etc.
- Operating mode: S1 or others
- Insulation grade: 155 (F), 180(H), or nanometer insulation
- Rotation direction: Clockwise, counterclockwise, bidirectional
- Wiring box position: Top of motor, right side of motor, left side of motor (viewed from the shaft extension end)

Example of demand:

- Base center height 315, 132 kW, 2P base equipped with feet, no flange at the end cover, 380/660V, clockwise rotation, IP55 rated, insulation grade F. The motor label is as follows: WE3-315M-2 132kW 380/660V 50Hz IMB3 IP55 F.
- If you have any special requirements for voltage, frequency, protection grade, rotation direction, installation mode, dual-shaft extension, noise, vibration and wiring box connection, consult the local technical personnel for approval before manufacturing

※ The data in this sample is subject to change without notice. Please pay attention to change to the sample version.

Note: