

General purpose cast iron motors - Variant codes

Code	Variant	Motor size					
		71-80	90-100	112-132	160-180	200-250	280-355
Balancing							
052	Vibration acc. to grade A (IEC 60034-14).	P	P	P	M	M	S
417	Vibration acc. to grade B (IEC 60034-14).	M	M	M	R	R	NA
424	Full key balancing.	M	M	M	M	M	NA
Bearings and lubrication							
036	Transport lock for bearings.	NA	NA	NA	M	M	M
037	Roller bearing at D-end.	NA	NA	NA	M	M	M
039	Cold resistant grease (-55... +100°C). For frame sizes 160-225, only possible when using regreasable bearings.	M	M	M	M	M	M
040	Heat resistant grease (-25... 150°C). For frame sizes 160-225, only possible when using regreasable bearings.	M	M	M	M	M	M
041	Bearings regreasable via grease nipples.	NA	NA	M	M	M	S
043	SPM nipples. Frame sizes 112-132 only foot mounted B3.	NA	NA	M	M	M	M/S
Branch standard designs							
178	Stainless steel/acid proof bolts.	M	M	M	M	M	M
209	Non-standard voltage or frequency, (special winding).	M	M	M	M	M	NA
425	Corrosion protected stator and rotor core. (only core as standard).	M	M	M	M	M	S
785	Reinforced tropicalisation.	R	R	R	R	R	R
Cooling system							
068	Metal fan.	M	M	M	M	M	M
183	Separate motor cooling fan (fan axial, N-end).	P	M	M	M	M	NA
Dimension drawing							
141	Binding dimension drawing.	M	M	M	M	M	M
Drain holes							
065	Plugged existing drain holes.	M	M	M	NA	NA	M
076	Draining holes with felt plugs.	M	M	M	M	M	NA
Earthing bolt							
067	External earthing bolt.	M	M	M	M	M	S
Heating elements							
450	Heating element, 100-120 V.	M	M	M	M	M	M
451	Heating element, 200-240 V.	M	M	M	M	M	M
Insulation systems							
014	Winding insulation class H.	P	P	P	P	P	NA
405	Special winding insulation for frequency converter supply.	P	P	P	P	P	NA

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Mounting arrangements							
008	IM 2101 foot/flange mounted, from IM 1001(B34 from B3).	M	M	M	M	NA	NA
009	IM 2001 foot/flange mounted, IEC flange, from IM 1001(B35 from B3).	M	M	M	M	M	M
047	IM 3601 flange mounted, IEC flange, from IM 3001 (B14 from B5).	M	M	M	M	NA	NA
066	Modified for non-standard mounting position (please specify IM xxxx). (must be ordered for all mounting arrangements excluding IM B3 (1001) and B5 (3001).	M	M	M	NA	NA	M
078	IM 3601 flange mounted, DIN C-flange.	M	M	M	NA	NA	NA
090	IM 2101 foot/flange mounted, DIN C-flange, from IM 1001, (B34 from B3).	M	M	M	NA	NA	NA
Painting							
114	Special paint colour, standard grade. RAL-colour no. must be specified.	M	M	M	M	M	M
Protection							
005	Metal protective roof, vertical motor, shaft down.	M	M	M	M	M	M
072	Radial seal at D-end.	M	M	M	R	R	M
073	Sealed against oil at D-end.	P	P	P	R	R	M
158	Degree of protection IP65.	M	M	M	M	M	M
211	Weather protected, IP xx W.	M	M	M	M	M	NA
401	Protective roof, horizontal motor.	NA	NA	NA	M	M	R
403	Degree of protection IP56.	M	M	M	M	M	M
Rating & instruction plates							
002	Restamping voltage, frequency and output, continuous duty.	M	M	M	M	M	M
095	Restamping output (maintained voltage, frequency), intermittent duty.	M	M	M	M	M	M
135	Mounting of additional identification plate, stainless.	M	M	M	M	M	M
138	Mounting of additional identification plate, aluminum.	M	M	M	M	M	NA
139	Additional identification plate delivered loose.	M	M	M	M	M	M
161	Additional rating plate delivered loose.	M	M	M	M	M	M
Shaft & rotor							
070	One or two special shaft extensions, standard shaft material.	M	M	M	M	M	NA
Stator winding temperature sensors							
121	Bimetal detectors, break type (NCC), (3 in series), 130°C, in stator winding.	M	M	M	M	M	M
122	Bimetal detectors, break type (NCC), (3 in series), 150°C, in stator winding.	M	M	M	M	M	M
123	Bimetal detectors, break type (NCC), (3 in series), 170°C, in stator winding.	M	M	M	M	M	M
125	Bimetal detectors, break type (NCC), (2x3 in series), 150°C, in stator winding.	M	M	M	M	M	M
127	Bimetal detectors, break type (NCC), (3 in series 130°C & 3 in series, 150°C), in stator winding.	M	M	M	M	M	M
321	Bimetal detectors, closing type (NO), (3 in parallel), 130°C, in stator winding.	M	M	M	M	M	M
322	Bimetal detectors, closing type (NO), (3 in parallel), 150°C, in stator winding.	M	M	M	M	M	M
323	Bimetal detectors, closing type (NO), (3 in parallel), 170°C, in stator winding.	M	M	M	M	M	M
325	Bimetal detectors, closing type (NO), (2x3 in parallel), 150°C, in stator winding.	M	M	M	M	M	M
327	Bimetal detectors, closing type (NO), (3 in parallel, 130°C & 3 in parallel 150°C), in stator winding.	M	M	M	M	M	M

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435	PTC-thermistors (3 in series), 130°C, in stator winding.	M	M	M	M	M	M
436	PTC-thermistors (3 in series), 150°C, in stator winding.	S	S	S	S	S	S
437	PTC-thermistors (3 in series), 170°C, in stator winding.	M	M	M	M	M	M
439	PTC-thermistors (2x3 in series), 150°C, in stator winding.	M	M	M	M	M	M
441	PTC-thermistors (3 in series, 150°C & 3 in series, 150°C), in stator winding.	M	M	M	M	M	M
442	PTC-thermistors (3 in series, 150°C & 3 in series, 150°C), in stator winding.	M	M	M	M	M	M
445	Pt100 2-wire in stator winding, 1 per phase.	M	M	M	M	M	M
446	Pt100 2-wire in stator winding, 2 per phase.	M	M	M	M	M	M

Terminal box

015	Motor supplied in D-connection.	M	M	M	M	M	NA
017	Motor supplied in Y-connection.	M	M	M	M	M	NA
021	Terminal box LHS, seen from D-end. (= L in product code).	P	P	P	P	P	NA
180	Terminal box RHS, seen from D-end (= R in product code).	P	P	P	P	P	NA
137	Extended cable connection, low terminal box.	R	R	R	R	R	NA
157	Terminal box degree of protection IP 65.	M	M	M	M	M	NA
230	Standard metal cable glands.	M	M	M	M	M	S
231	Standard cable glands with clamping device.	M	M	M	M	M	NA
400	4x90 degrees turnable terminal box.	S	S	S	M	M	NA
418	Separate terminal box for auxiliaries, standard material.	NA	NA	NA	R	R	M
467	Lower than standard terminal box and rubber extended cable, length 2 m included.	R	R	R	R	R	NA
468	Cable entry from D-end.	M	M	M	M	M	NA
469	Cable entry from N-end.	M	M	M	M	M	NA
731	Two standard metal cable glands.	M	M	M	M	M	S

Testing

140	Test confirmation.	M	M	M	M	M	NA
145	Type test report from a catalogue motor, 400 V 50 Hz.	M	M	M	M	M	M
146	Type test with report for motor from specific delivery batch.	R	R	R	R	R	R
148	Routine test report (only at 400 V 50 Hz).	M	M	M	M	M	M
760	Vibration level test.	M	M	M	M	M	M
762	Noise level test.	R	R	R	NA	NA	R

Variable speed drives

701	Insulated bearing at N-end.	NA	NA	NA	NA	NA	M
704	EMC cable gland.	NA	NA	NA	M	M	M

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