

Process performance cast iron motors variant codes

Code / Variant	Frame Size																
	71	80	90	100	112	132	160	180	200	225	250	280	315	355	400	450	
Administration																	
530	2-year extension on standard warranty	NA	NA	NA	NA	NA	NA	R	R	R	R	R	M	M	M	P	P
531	Sea freight packing	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	M	M	M	P	P
Balancing																	
417	Vibration acc. to Grade B (IEC 60034-14).	P	P	P	P	P	P	P	P	P	P	P	P	P	P	R	R
423	Balanced without key.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
424	Full key balancing.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
Bearings and Lubrication																	
036	Transport lock for bearings.	M	M	M	M	M	M	M	M	M	M	M	M	M	M	P	P
037	Roller bearing at D-end.	M	M	M	M	M	M	M	M	M	M	M	M	M	M	P	P
039	Cold resistant grease.	M	M	M	M	M	M	NA	NA	NA	NA	NA	M	M	M	P	P
040	Heat resistant grease.	M	M	M	M	M	M	NA	NA	NA	NA	NA	M	M	M	P	P
041	Bearings regreasable via grease nipples.	M	M	M	M	M	M	S	S	S	S	S	S	S	S	S	S
043	SPM compatible nipples for vibration measurement	P	P	P	P	P	P	S	S	S	S	S	S	S	S	S	S
057	2RS bearings at both ends.	M	M	M	M	M	M	M	M	M	M	M	NA	NA	NA	NA	NA
058	Angular contact bearing at D-end, shaft force away from bearing.	M	M	M	M	M	M	M	M	M	M	M	P	P	P	P	P
059	Angular contact bearing at N-end, shaft force towards bearing.	P	P	P	P	P	P	M	M	M	M	M	P	P	P	P	P
060	Angular contact bearing at D-end, shaft force towards bearing.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	P	P	P	P	P
061	Angular contact bearing at N-end, shaft force away from bearing.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	P	P	P	P	P
107	Pt100 2-wire in bearings.	NA	NA	NA	NA	NA	NA	P	P	P	P	P	M	M	M	P	P
128	Double PT100, 2-wire in bearings	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	M	M	M	P	P
129	Double PT100, 3-wire in bearings	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	M	M	M	P	P
130	Pt100 3-wire in bearings.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	M	M	M	P	P
194	2Z bearings greased for life at both ends.	NA	NA	NA	NA	NA	NA	M	M	M	M	M	NA	NA	NA	NA	NA
420	Bearing mounted PTC thermistors.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	P	P	P	P	P
433	Outlet grease collector	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	P	P	P	P	P
506	Nipples for vibration measurement : SKF Marlin Quick Connect stud CMSS-2600-3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	P	P	P	P	P
796	Grease nipples JIS B 1575 PT 1/8 Type A	NA	NA	NA	NA	NA	NA	M	M	M	M	M	M	M	M	P	P
797	Stainless steel SPM Nipples	NA	NA	NA	NA	NA	NA	M	M	M	M	M	M	M	M	P	P
798	Stainless steel grease nipples	NA	NA	NA	NA	NA	NA	M	M	M	M	M	M	M	M	P	P
799	Grease nipples flat type DIN 3404, thread M10x1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	M	M	M	P	P
800	Grease nipples JIS B 1575 PT 1/8" pin type	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	M	M	M	P	P
Brakes																	
412	Built-on brake.	NA	NA	NA	NA	NA	NA	R	R	R	R	R	P	P	P	P	R
Branch standard designs																	
142	"Manilla connection".	NA	NA	P	P	P	P	P	P	P	P	P	P	P	NA	NA	NA
178	Stainless steel / acid proof bolts.	M	M	M	M	M	M	M	M	M	M	M	M	M	M	P	P
204	Jacking bolts for foot mounted motors.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	P	P	S	S	S
209	Non-standard voltage or frequency, (special winding).	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
396	Motor designed for ambient temperature -20°C to -40°C, with space heaters (code 450/451 must be added).	NA	NA	NA	NA	NA	NA	R	R	R	R	R	P	P	P	P	P
397	Motor designed for ambient temperature -40°C to -55°C, with space heaters (code 450/451 must be added).	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	P	P	P	P	P

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398	Motor designed for ambient temperature -20°C to -40°C.															
399	Motor designed for ambient temperature -40°C to -55°C.															
419	Textile industry design.															
425	Corrosion protected stator and rotor core.															
443	Special rotor design for GTO-converter duty															
785	Reinforced tropicalisation.															
Cooling system																
044	Unidirectional fan for reduced noise level. Rotation clockwise seen from D-end. Available only for 2-pole motors.															
045	Unidirectional fan for reduced noise level. Rotation counter clockwise seen from D-end. Available only for 2-pole motors.															
068	Light alloy metal fan															
075	Cooling method IC418 (without fan).															
183	Separate motor cooling (fan axial, N-end).															
189	Separate motor cooling, IP44, 400V, 50Hz (fan axial, N-end).															
206	Steel fan															
422	Separate motor cooling (fan top, N-end).															
791	Stainless steel fan cover															
793	Fan for reduced noise level (2-p fan).															
794	Fan for reduced noise level (4-p fan).															
Coupling																
035	Assembly of customer supplied coupling-half.															
Documentation																
141	Binding dimension drawing.															
Drain holes																
065	Plugged existing drain holes.															
448	Draining holes with metal plugs.															
Earthing Bolt																
067	External earthing bolt.															
Hazardous Environments																
452	DIP/Ex tD acc. to ATEX directive 94/9/EC, T= 125°C, cat. 3D, IP55															
453	DIP/Ex tD acc. to ATEX directive 94/9/EC, T= 125°C, cat. 2D, IP65															
454	DIP/Ex tD acc. to ATEX directive 94/9/EC, T= 125°C, cat. 3D, IP65															
Heating elements																
450	Heating element, 100-120V.															
451	Heating element, 200-240V.															
Insulation system																
014	Winding insulation class H.															
405	Special winding insulation for frequency converter supply.															
406	Winding for supply >690<=1000 Volts.															
Marine motors																
See catalog "Marine motors" for details.																

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		71	80	90	100	112	132	160	180	200	225	250	280	315	355	400	450
Mounting arrangements																	
008	IM 2101 foot/flange mounted, IEC flange, from IM 1001 (B34 from B3).	M	M	M	M	M	M	NA	NA	NA	NA	NA	NA	NA	NA	NA	
009	IM 2001 foot/flange mounted, IEC flange, from IM 1001 (B35 from B3).	M	M	M	M	M	M	M	M	M	M	M	M	M	M	P	P
047	IM 3601 flange mounted, IEC flange, from IM 3001 (B14 from B5).	M	M	M	M	M	M	NA	NA	NA	NA	NA	NA	NA	NA	NA	
066	Modified for non-standard mounting position (please specify IM xxxx), (must be ordered for all mounting arrangements excluding IM B3 (1001), IM B5 (3001), IM B35 (2001), B34 (2101) & B14 (3601).	M	M	M	M	M	M	M	M	M	M	M	M	M	M	P	P
304	PAD mounting according to BS4999-141.	NA	NA	NA	NA	NA	NA	R	R	R	R	R	R	R	NA	NA	NA
305	Additional lifting lugs.	NA	NA	NA	NA	NA	NA	M	M	M	M	M	P	P	P	P	P
Noise reduction																	
055	Noise reducing cover.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	P	P	P	P	P
Painting																	
114	Special paint colour, standard grade.	M	M	M	M	M	M	M	M	M	M	M	M	M	M	P	P
115	Painting system C4M acc. To ISO 12944-5: 2007	NA	NA	P	P	P	P	R	R	R	R	R	P	P	P	P	P
168	Primer paint only.	NA	NA	P	P	P	P	NA	NA	NA	NA	NA	P	P	P	P	P
179	Special paint specification.	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
754	Painting system C5M acc. to ISO 12944-5:2007	NA	NA	P	P	P	P	R	R	R	R	R	P	P	P	P	P
755	Zinc-coating and epoxy painting for offshore environment (only available in Blue, Munsell 8B 4.5/3.25)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	P	P	P	P	P
Protection																	
005	Metal protective roof, vertical motor, shaft down.	M	M	M	M	M	M	M	M	M	M	M	M	M	M	P	P
072	Radial seal at D-end.	M	M	M	M	M	M	M	M	M	M	M	M	M	P	P	P
073	Sealed against oil at D-end.	NA	NA	NA	NA	NA	NA	M	M	M	M	M	P	P	P	P	P
158	Degree of protection IP65.	M	M	M	M	M	M	M	M	M	M	M	M	M	M	P	P
211	Weather protected, IP xx W	M	M	M	M	M	M	M	M	M	M	M	NA	NA	NA	NA	NA
403	Degree of protection IP56.	M	M	M	M	M	M	M	M	M	M	M	M	M	M	P	P
404	Degree of protection IP56, without fan and fan cover.	NA	NA	P	P	P	P	P	P	P	P	P	R	R	R	NA	NA
434	Degree of protection IP56, open deck.	NA	NA	P	P	P	P	NA	NA	NA	NA	NA	P	P	P	P	R
783	Labyrinth sealing at D-end.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	P	P	S	S	S
784	Gamma-seal at D-end.	S	S	S	S	S	S	S	S	S	S	S	NA	NA	NA	NA	NA
Rating & instruction plates																	
002	Restamping voltage, frequency and output, continuous duty.	M	M	M	M	M	M	M	M	M	M	M	M	M	M	P	P
004	Additional text on std rating plate (max 12 digits on free text line).	NA	NA	NA	NA	NA	NA	M	M	M	M	M	M	M	M	P	P
095	Restamping output (maintained voltage, frequency), intermittent duty.	M	M	M	M	M	M	M	M	M	M	M	P	P	P	P	P
126	Tag plate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	P	P	P	P	P
135	Mounting of additional identification plate, stainless.	M	M	M	M	M	M	M	M	M	M	M	M	M	M	P	P
138	Mounting of additional identification plate, aluminium.	M	M	M	M	M	M	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
139	Additional identification plate delivered loose.	M	M	M	M	M	M	M	M	M	M	M	M	M	M	P	P
160	Additional rating plate affixed.	M	M	M	M	M	M	M	M	M	M	M	M	M	M	P	P
161	Additional rating plate delivered loose.	M	M	M	M	M	M	M	M	M	M	M	M	M	M	P	P
163	Frequency converter rating plate. Rating data according to quotation.	M	M	M	M	M	M	M	M	M	M	M	M	M	M	P	P

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Shaft & rotor																	
069	Two shaft extensions as per basic catalogue.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
070	One or two special shaft extensions, standard shaft material.	R	R	R	R	R	R	R	R	R	R	R	P	P	P	P	P
131	Motor delivered with half key (Key not exceeding shaft diameter)	M	M	M	M	M	M	M	M	M	M	M	NA	NA	NA	NA	NA
164	Shaft extension with closed key-way.	S	S	S	S	S	S	S	S	S	S	S	P	P	P	P	R
165	Shaft extension with open key-way.	P	P	P	P	P	P	P	P	P	P	P	S	S	S	S	S
410	Stainless steel shaft (standard or non-standard design).	P	P	P	P	P	P	R	R	R	R	R	P	P	P	P	P
Standards and Regulations																	
010	Fulfilling CSA Safety Certificate.	NA	NA	NA	NA	NA	NA	M	M	M	M	M	P	P	P	P	P
011	Fulfilling CSA Energy Efficiency Verification (code 010 included).	NA	NA	NA	NA	NA	NA	M	M	M	M	M	P	P	NA	NA	NA
151	Design according to SHELL DEP 33.66.05.31-Gen. June 2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	P	P	P	P	NA
408	Fulfilling EPAAct certification requirements, CC031A.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	P	P	NA	NA	NA
421	VIK design (Verband der Industriellen Energie- und Kraftwirtschaft e.V.).	NA	NA	P	P	P	P	NA	NA	NA	NA	NA	P	P	P	P	NA
500	Fulfilling Korean MEPS efficiency regulations	NA	NA	NA	NA	NA	NA	R	R	R	R	R	M	M	M	NA	NA
505	VIK design with ABB standard shaft dimensions (Verband der Industriellen Energie- und Kraftwirtschaft e.V.).	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	M	M	M	NA	NA
540	China energy label	NA	NA	NA	NA	NA	NA	R	R	R	R	R	M	M	M	NA	NA
756	EDF design (Electricité de France), non-classified zone.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	P	P	P	R	R
757	EDF design (Electricité de France), zone E1 K3.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	P	P	P	R	R
774	Design according to NORSOK (Norwegian Territorial Waters)excluding surface treatment.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	P	P	P	P	P
775	Design according to SHELL DEP 33.66.05.31-Gen. January 1999 design.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	M	M	P	P	NA
778	GOST Export/Import Certificate (Russia).	NA	NA	NA	NA	NA	NA	M	M	M	M	M	M	M	M	P	P
779	SASO Export/Import Certificate (Saudi Arabia)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	M	M	M	P	P
802	GOST Kazakhstan certified	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	P	P	P	P	P
Stator winding temperature sensors																	
120	KTY 84-130 (1 per phase) in stator winding.	NA	NA	NA	NA	NA	NA	R	R	R	R	R	P	P	P	P	P
121	Bimetal detectors, break type (NCC), (3 in series), 130°C, in stator winding.	M	M	M	M	M	M	M	M	M	M	M	M	M	M	P	P
122	Bimetal detectors, break type (NCC), (3 in series), 150°C, in stator winding.	M	M	M	M	M	M	M	M	M	M	M	M	M	M	P	P
123	Bimetal detectors, break type (NCC), (3 in series), 170°C, in stator winding.	NA	NA	M	M	M	M	M	M	M	M	M	M	M	M	P	P
124	Bimetal detectors, break type (NCC), (3 in series), 140°C, in stator winding.	NA	NA	M	M	M	M	M	M	M	M	M	M	M	M	P	P
125	Bimetal detectors, break type (NCC), (2x3 in series), 150°C, in stator winding.	NA	NA	M	M	M	M	M	M	M	M	M	P	P	P	P	P
127	Bimetal detectors, break type (NCC), (3 in series, 130°C & 3 in series, 150°C), in stator winding.	NA	NA	M	M	M	M	M	M	M	M	M	P	P	P	P	P
435	PTC - thermistors (3 in series), 130°C, in stator winding.	M	M	M	M	M	M	M	M	M	M	M	M	M	M	P	P
436	PTC - thermistors (3 in series), 150°C, in stator winding.	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S

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437	PTC - thermistors (3 in series), 170°C, in stator winding.															
438	PTC - thermistors (3 in series), 190°C, in stator winding.															
439	PTC - thermistors (2x3 in series), 150°C, in stator winding.															
441	PTC - thermistors (3 in series, 130°C & 3 in series, 150°C), in stator winding.															
442	PTC - thermistors (3 in series, 150°C & 3 in series, 170°C), in stator winding.															
445	Pt-100 2-wire in stator winding, 1 per phase															
446	Pt-100 2-wire in stator winding, 2 per phase															
502	Pt-100 3-wire in stator winding, 1 per phase.															
503	Pt-100 3-wire in stator winding, 2 per phase.															
Terminal box																
015	Motor supplied in D connection.															
017	Motor supplied in Y connection.															
019	Larger than standard terminal box.															
020	Detached terminal box.															
021	Terminal box LHS (seen from D-end).															
022	Cable entry LHS (seen from D-end).															
157	Terminal box degree of protection IP65.															
180	Terminal box RHS (seen from D-end).															
230	Standard metal cable glands.															
231	Standard cable glands with clamping device.															
277	Cable sealing end unit, size small for C-opening															
278	Cable sealing end unit, size medium for D-opening															
279	Cable sealing end unit, size large for D-opening															
292	Adapter C-C															
293	Adapter D-D															
294	Adapter E-D															
295	Adapter E-2D															
296	Adapter E-3D															
375	Standard plastic cable gland															
380	Separate terminal box for temperature detectors, std. material															
400	4 * 90 degr turnable terminal box															
409	Large terminal box with two terminal blocks.															
413	Extended cable connection, no terminal box.															
418	Separate terminal box for auxiliaries, standard material.															
444	Adapter E-2E.															
447	Top mounted separate terminal box for monitoring equipment.															
466	Terminal box at N-end.															
467	Lower than standard terminal box and rubber extended cable. Cable length 2m.															
468	Cable entry from D-end.															
469	Cable entry from N-end.															
567	Separate terminal box material: Cast Iron															
568	Separate terminal box for heating elements, std. material															
569	Separate terminal box for brakes															

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729	Aluminum non-drilled flange for cable glands	NA	NA	NA	NA	NA	NA	M	M	M	M	M	M	M	P	P
730	Prepared for NPT cable glands	M	M	M	M	M	M	NA	NA	NA	NA	NA	P	P	P	P
731	Two standard metal cable glands.	M	M	M	M	M	M	M	M	M	M	M	S	S	S	S
732	Standard cable gland, Ex d IIB, armoured cable.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	P	P	P	P
740	Prepared for PG cable glands.	NA	NA	NA	NA	NA	NA	M	M	M	M	M	NA	NA	NA	NA
742	Protective cover for accessory terminal block in main terminal box.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	M	M	M	P
743	Painted non-drilled flange in steel for cable glands	NA	NA	NA	NA	NA	NA	M	M	M	M	M	M	M	P	P
744	Stainless steel non-drilled flange for cable glands.	NA	NA	NA	NA	NA	NA	M	M	M	M	M	M	M	P	P
745	Painted steel flange equipped with nickle plated brass cable glands	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	M	M	M	P
746	Stainless steel cable flange equipped with standard nickle plated brass cable glands	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	P	P	P	P
Testing																
140	Test confirmation.	M	M	M	M	M	M	M	M	M	M	M	NA	NA	NA	NA
145	Type test report from a catalogue motor, 400V 50Hz.	M	M	M	M	M	M	M	M	M	M	M	M	M	P	P
146	Type test with report for one motor from specific delivery batch.	NA	NA	M	M	M	M	M	M	M	M	M	P	P	P	P
147	Type test with report for motor from specific delivery batch, customer witnessed.	NA	NA	M	M	M	M	M	M	M	M	M	NA	NA	NA	NA
148	Routine test report.	M	M	M	M	M	M	M	M	M	M	M	M	M	P	P
150	Customer witnessed testing. Specify test procedure with other codes.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	P	P	P	P
153	Reduced test for classification society.	M	M	M	M	M	M	M	M	M	M	M	NA	NA	NA	NA
221	Type test and multi-point load test with report for one motor from specific delivery batch.	NA	NA	P	P	P	P	M	M	M	M	M	R	R	R	R
222	Torque/speed curve, type test and multi-point load test with report for one motor from specific delivery batch.	NA	NA	M	M	M	M	M	M	M	M	M	P	P	P	P
760	Vibration level test	P	P	P	P	P	P	M	M	M	M	M	M	M	M	P
761	Vibration spectrum test for one motor from specific delivery batch.	R	R	R	R	R	R	NA	NA	NA	NA	NA	P	P	P	P
762	Noise level test for one motor from specific delivery batch.	P	P	P	P	P	P	M	M	M	M	M	P	P	P	P
763	Noise spectrum test for one motor from specific delivery batch.	P	P	P	P	P	P	NA	NA	NA	NA	NA	P	P	P	P
764	Test for one motor from specific delivery batch with ABB frequency converter available at ABB test field. ABB standard test procedure.	R	R	R	R	R	R	NA	NA	NA	NA	NA	P	P	P	P
Variable speed drives																
062	Tachogenerator.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	P	P	P	P
182	Mounting of non-listed pulse tacho.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	P	P	P	P
429	Separate motor cooling (fan top, N-end) and 1024 pulse tacho (Leine & Linde 861) mounted.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	P	P	P	P
470	Prepared for hollow shaft pulse tacho (L&L equivalent).	NA	NA	NA	NA	NA	NA	M	M	M	M	M	P	P	P	P
472	1024 pulse tacho (L&L 861007455-1024).	NA	NA	P	P	P	P	M	M	M	M	M	P	P	P	P
473	2048 pulse tacho (L&L 861007455-2048).	NA	NA	P	P	P	P	M	M	M	M	M	P	P	P	P
474	Separate motor cooling (fan axial, N-end) and prepared for hollow shaft tacho (L&L equivalent).	NA	NA	NA	NA	NA	NA	M	M	M	M	M	P	P	P	P
476	Separate motor cooling (fan axial, N-end) and 1024 pulse tacho (L&L 861007455-1024).	NA	NA	NA	NA	NA	NA	M	M	M	M	M	P	P	P	P

Note: Variant code option list also valid for premium efficiency motors M4BP 160-355. Certain variant codes cannot be used simultaneously.

S = Included as standard

P = New manufacture only

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R = On request

NA = Not applicable.

Code / Variant	Frame Size															
	71	80	90	100	112	132	160	180	200	225	250	280	315	355	400	450
477	Separate motor cooling (fan axial, N-end) and 2048 pulse tacho (L&L 861007455-2048).															
478	Separate motor cooling (fan top, N-end) and prepared for hollow shaft tacho (L&L equivalent).															
479	Mounting of other type of pulse tacho with shaft extension, tacho not included.															
486	Separate motor cooling (fan top, N-end) and prepared for DC-tacho.															
510	Separate motor cooling (fan top, N-end) and 2048 pulse tacho (Leine & Linde 861) mounted.															
570	Prepared for hollow shaft pulse tacho (L&L 503).															
572	1024 pulse tacho (L&L 503).															
573	2048 pulse tacho (L&L 503).															
574	Separate motor cooling (fan axial, N-end) and prepared for hollow shaft tacho (L&L 503).															
576	Separate motor cooling (fan axial, N-end) and 1024 pulse tacho (L&L 503).															
577	Separate motor cooling (fan axial, N-end) and 2048 pulse tacho (L&L 503).															
578	Separate motor cooling, IP44, 400V, 50Hz (fan axial, N-end) and prepared for hollow shaft tacho (L&L 503).															
580	Separate motor cooling, IP44, 400V, 50Hz (fan axial, N-end) and 1024 pulse tacho (L&L 503).															
581	Separate motor cooling, IP44, 400V, 50Hz (fan axial, N-end) and 2048 pulse tacho (L&L 503).															
582	1024 Pulse tacho, GHK912-GBR-1024, BEI IDEACOD															
583	2048 Pulse tacho, GHK912-GBR-2048, BEI IDEACOD															
658	Special tacho mounted, price category 1															
659	Special tacho mounted, price category 2															
660	Special tacho mounted, price category 3															
701	Insulated bearing at N-end.															
704	EMC cable gland.															
Y/Δ starting																
117	Terminals for Y/Δ start at both speeds (two speed windings).															
118	Terminals for Y/Δ start at high speed (two speed windings).															
119	Terminals for Y/Δ start at low speed (two speed windings).															

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