## **Voltages**

Additional order codes for other voltages or voltage codes (without -Z supplement)

Not possible for General Line motors with shorter delivery time.

For some non-standard voltages at 50 or 60 Hz, order codes are specified. They are ordered by specifying the code digit  $\bf 9$  for voltage in the 12th position and  $\bf 0$  in the 13th position of the Order No. and the appropriate order code.

Special versions	Voltage co position 1 Order No.	2/13 of the	Additional identification code with order code and plain text if required	Motor	type fra	ame size						
				56	63	71	80	90	100	112	132	160
Self-ventilated motors in	pole-char	ging versio	n									
									1LE1	(alumin	um)	
Voltage at 60 Hz												
220 V; 50 Hz output	9	0	M5K						1	1	1	1
220 V; 60 Hz output	9	0	M5C						✓	✓	✓	✓
380 V; 50 Hz output	9	0	M5L						✓	/	✓	✓
380 V; 60 Hz output	9	0	M5D						✓	/	✓	✓
440 V; 50 Hz output	9	0	M5M						1	1	1	✓
440 V; 60 Hz output	9	0	M5E						✓	✓	✓	✓
460 V; 50 Hz output	9	0	M5N						✓	✓	✓	✓
460 V; 60 Hz output	9	0	M5F						1	/	1	1
575 V; 50 Hz output	9	0	M5P						1	/	1	1
575 V; 60 Hz output	9	0	M5G						1	/	1	1
Non-standard voltages and/o	r frequenci	es										
Non-standard winding for voltages between 200 V and 690 V (voltages outside this range are available on request) 1)	/	0	M1Y						✓	1	✓	✓

✓ With additional charge

Plain text must be specified in the order: Voltage, frequency, circuit, required rated output in kW.

			and plain text if required									
			roquirou	56	63	71	80	90	100	112	132	160
Self-ventilated energy-sa Self-ventilated energy-sa Self-ventilated motors wit Self-ventilated motors wit Forced-air cooled motors Forced-air cooled motors Self-cooled motors witho Self-cooled motors witho	ving moth th increath increath withous withou ut exte	otors with his eased outpure eased outpure eased outpure texternal faut external farnal farnal fan and	gh efficiency t and improved efficie t and high efficiency an and fan cover with an and fan cover with fan cover with impro	improved high effici ved efficie	ency	ncy						
									1LE1	/1PC1 (	Alumin	ım)
Voltage at 60 Hz												
220 VΔ/380 VY; 50 Hz output	9	0	M2A						1	1	1	1
220 VΔ/380 VY; 60 Hz output	9	0	M1A						1	1	1	1
380 V∆/660 VY; 50 Hz output	9	0	M2B						1	1	1	1
380 V∆/660 VY; 60 Hz output	9	0	M1B						1	1	1	1
440 VY; 50 Hz output	9	0	M2C						1	1	1	1
440 VY; 60 Hz output	9	0	M1C						1	✓	1	1
440 V∆; 50 Hz output	9	0	M2D						1	✓	1	1
440 VΔ; 60 Hz output	9	0	M1D						1	✓	1	1
460 VY; 50 Hz output	9	0	M2E						1	1	1	1
460 VY; 60 Hz output	9	0	M1E						0	0	0	0
460 V∆; 50 Hz output	9	0	M2F						1	1	1	1
460 VΔ; 60 Hz output	9	0	M1F						0	0	0	0
575 VY; 50 Hz output	9	0	M2G						1	1	1	1
575 VY; 60 Hz output	9	0	M1G						1	1	1	1
575 V∆; 50 Hz output	9	0	M2H						1	1	1	1
575 V∆; 60 Hz output	9	0	M1H						1	1	1	1
Non-standard voltages and /	or frequ	encies										
Non-standard winding for voltages between 200 V and 690 V (voltages outside this range are available on request) 1)	'	0	M1Y						✓	✓	✓	1

Additional identification code with order code

Motor type frame size

Voltage code 12th / 13th position of the Order No.

Special versions

O Without additional charge✓ With additional charge

Plain text must be specified in the order: voltage, frequency, circuit, required rated output in kW.

Options or order codes (supplement **-Z** is required) Not possible for General Line motors with shorter delivery time. Additional identi-Special versions Motor type frame size fication code -Z with order code and plain text if required 56 71 80 90 100 112 132 160 Self-ventilated energy-saving motors with improved efficiency Self-ventilated energy-saving motors with high efficiency Self-ventilated motors with increased output and improved efficiency Self-ventilated motors with increased output and high efficiency 1LE1 (Aluminum) Motor connection and connection box One cable gland, metal **R15** 0 Rotation of the connection box R10 0 0 0 through 90°, entry from DE Rotation of the connection box through 90°, entry from NDE 0 R11 0 0 0 Rotation of the connection box 0 0 0 0 R12 through 180° **R50** Larger connection box Reduction piece for M cable R30 gland in accordance with British standard, both cable entries mounted 1) entries mounted External earthing H04 3 cables protruding, 0.5 m long <sup>2)3)</sup> **R20** 3 cables protruding, R21 1.5 m long 6 cables protruding, **R22** 0.5 m long 6 cables protruding, 1.5 m long <sup>2)</sup> **R23** 6 cables protruding, **R24** / / / / 3 m long Connection box on NDE 4) H08 / 1 1 Windings and insulation Temperature class 155 (F), N01 1 1

/

used acc. to 155 (F), with service factor (SF) Temperature class 155 (F),

used acc. to 155 (F), with increased output Temperature class 155 (F),

used acc. to 155 (F), with increased coolant temperature
Temperature class 180 (H)

at rated power and max. CT 60 °C 5)
Increased air humidity/

used acc. to 130 (B), coolant temperature 45 °C, derating approx. 4 %

temperature with 30 to 60 g water per m<sup>3</sup> of air Temperature class 155 (F), N<sub>0</sub>2

N03

N11

N20

N05

with order code

and plain text if required 63 71 80 90 100 112 132 160 Self-ventilated energy-saving motors with improved efficiency Self-ventilated energy-saving motors with high efficiency Self-ventilated motors with increased output and improved efficiency Self-ventilated motors with increased output and high efficiency 1LE1 (Aluminum) Windings and insulation (continued) Temperature class 155 (F), used acc. to 130 (B) coolant temperature 50 °C, derating approx. 8 % Temperature class 155 (F), N07 used acc. to 130 (B), coolant temperature 55 °C. derating approx. 13 % N08 Temperature class 155 (F), used acc. to 130 (B), coolant temperature 60 °C, derating approx. 18 % Increased air humidity/ N21 temperature with 60 to 100 g water per m<sup>3</sup> of air Temperature class 155 (F), **Y52** • and / 1 used acc. to 155 (F), other identification requirements code Colors and paint finish Special finish in RAL 7030 stone gray Special finish in other standard **Y54** • and special finish RAL colors: RAL 1002, 1013, 1015, 1019, 2003, 2004, 3000, 3007, 5007, 5009, 5010, 5012, RAL.... 5015, 5017, 5018, 5019, 6011, 6019, 6021, 7000, 7001, 7004, 7011, 7016, 7022, 7031, 7032, 7033, 7035, 9001, 9002, 9005, Special finish in special RAL Y51 • and colors: for RAL colors, see special finish RAL.... "Special finish in special RAL colors", Catalog D 81.1 part 0 S03 Special finish sea air resistant 0. R O. R. O. R. O.R Unpainted S00 0 0 0 0 (only cast iron parts primed) Unpainted, only primed S01 1 Modular technology - Basic versions 6) Mounting of separately driven F70 / 1 1 fan Mounting of brake 7) F01 / Mounting of 1XP8012-10 (HTL) rotary pulse encoder <sup>8)</sup> G01 / / /

0

/

0

/

0

1

0

1

Mounting of 1XP8012-20 (TTL)

Brake supply voltage 24 V DC Brake supply voltage 230 V AC, F11

Mechanical manual brake

release with lever (no locking)

Brake supply voltage 400 V AC, F12

Modular technology - Additional versions

rotary pulse encoder

50/60 Hz

50/60 Hz

G02

F50

required 63 71 80 90 100 112 132 160 Self-ventilated energy-saving motors with improved efficiency Self-ventilated energy-saving motors with high efficiency Self-ventilated motors with increased output and improved efficiency Self-ventilated motors with increased output and high efficiency 1LE1 (Aluminum) Special technology 6) Mounting of LL 861 900 220 rotary pulse encoder 8) G04 Mounting of HOG 9 D 1024 I rotary pulse encoder 8) G05 Mounting of HOG 10 D 1024 I rotary pulse encoder 8) G06 Mechanical design and degrees of protection Protective cover for types of construction <sup>8)</sup> Screwed-on feet H01 (instead of cast) Radial seal on DE for flange-H23 mounting motors with oil resistance to 0.1 bar Low-noise version for 2-pole F77 motors with clockwise direction of rotation Low-noise version for 2-pole F78 motors with counter-clockwise direction of rotation IP65 degree of protection <sup>10)</sup> H20 IP56 degree of protection H22 (non-heavy-sea) Vibration-proof version H<sub>0</sub>2 Condensation drainage holes <sup>12)</sup> H03 H07 Non-rusting screws (externally) Prepared for mountings, only center hole <sup>13)</sup> G40 Prepared for mountings with D12 shaft <sup>13)</sup> G41 Prepared for mountings with D16 shaft <sup>13)</sup> G42 Protective cover for encoder G43 (loosely enclosed - only for mountings acc. to order codes G40, G41 and G42) Coolant temperature and site altitude Coolant temperature -40 °C to +40 °C <sup>14)</sup> Coolant temperature -30 °C to +40 °C <sup>14)</sup> D04

Designs in accordance with standards and specifications

D30

D31

D40

**D46** 

Electrical according to NEMA MG1-12 15)

PSE Mark Japan 18)

Design according to UL with "Recognition Mark" 16)

Canadian regulations (CSA) 17)

Self-ventilated energy-saving motors with improved efficiency Self-ventilated energy-saving motors with high efficiency Self-ventilated motors with increased output and improved efficiency Self-ventilated motors with increased output and high efficiency

	1LE1 (Aluminum)					
Bearings and lubrication						
Measuring nipple for SPM shock pulse measurement for bearing inspection <sup>19</sup>	Q01		✓	1	✓	1
Bearing design for increased cantilever forces	L22		✓	✓	1	1
Special bearing for DE and NDE, bearing size 63	L25		✓	✓	1	✓
Regreasing device <sup>19)</sup>	L23		✓	✓	✓	✓
Located bearing at DE	L20		✓	✓	✓	✓
Located bearing at NDE	L21		✓	✓	✓	
Balance and vibration quantity	y					
Vibration quantity A						
Vibration quantity B	L00		✓	✓	✓	✓
Half-key balancing (standard)						
Full-key balancing	L02		✓	✓	✓	✓
Balancing without key	L01		✓	✓	✓	✓
Shaft and rotor						
Concentricity of shaft extension, coaxiality and linear movement in accordance with DIN 42955 Tolerance R for flange-mounting motors	L08		✓	<b>✓</b>	1	✓
Second standard shaft extension	L05		✓	✓	✓	✓
Shaft extension with standard dimensions, without featherkey way	L04		✓	1	✓	✓
Concentricity of shaft extension in accordance with DIN 42955 Tolerance R	L07		1	1	✓	1
Standard shaft made of non- rusting steel	L06		✓	1	1	✓
Non-standard cylindrical shaft extension <sup>20)</sup>	Y55 • and identification code		✓	1	✓	✓
Heating and ventilation						
Fan cover for textile industry	F75		✓	1	✓	✓
Metal external fan <sup>21)</sup>	F76		✓	1	✓	✓
Anti-condensation heaters for 230 V	Q02		1	1	1	✓
Anti-condensation heaters for 115 V	Q03		✓	1	✓	✓
Sheet metal fan cover	F74		1	1	1	✓
Rating plate and extra rating p	lates					
Second rating plate, loose	M10		1	1	1	✓
Nirosta rating plate	M11		1	1	✓	✓
Extra rating plate or rating plate with deviating rating plate data	<b>Y80</b> • and identification code		✓	1	1	✓
Extra rating plate with identification codes	Y82 • and identification code		✓	1	1	✓
Additional information on rating plate and on package label (max. of 20 characters)	<b>Y84</b> • and identification code		✓	✓	✓	✓

63

Self-ventilated energy-saving motors with improved efficiency Self-ventilated energy-saving motors with high efficiency Self-ventilated motors with increased output and improved efficiency

Self-ventilated motors with increased output and high efficiency

Builter to a section of the section of the						
Packaging, safety notes, docu	mentation and tes	st certificates				
Without safety and commissioning note. Customer's declaration of renouncement required.	B00		0	0	0	0
With one safety and start-up guide per box pallet	B01		0	0	0	0
Acceptance test certificate 3.1 in accordance with EN 10204	B02		1	✓	1	✓
Printed operating instructions English/German enclosed	B04		✓	✓	✓	✓
Type test with heat run for horizontal motors, with acceptance			✓	✓	✓	✓
Wire-lattice pallet	B99		0	0	0	0
Connected in star for dispatch	M01		✓	✓	✓	✓

71

80

90

100

112

1LE1 (Aluminum)

132

160

- Standard version
- Without additional charge

Connected in delta for dispatch M02

- This order code only determines the price of the version Additional plain text is required.
- O. R. Available on request
- With additional charge

- Not possible in combination with order code R15 "One cable gland. metal"
- In combination with motor protection (position 15 of the Order No.) or with option anti-condensation heater request required.
- Not possible in combination with voltage code 22 or 34.
- Not possible in combination with the following order codes: N01, N02, N03, N05, N06, N07, N08, N11.
  - Use according to temperature class 155 (F) possible only.
- Cannot be used for motors in UL version (order code D31). The grease lifetime specified in Catalog D 81.1 part 0 refers to CT 40 °C. When the coolant temperature rises by 10 K, the grease lifetime or relubrication interval is halved.
- A second shaft extension is not possible. Please inquire for mounted
- When quoting or ordering, it is necessary to provide the brake supply voltage for order codes F10, F11 and F12.
- All encoders are supplied with a protective cover as standard. The protective cover is not supplied with the combination rotary pulse encoder with separately driven fan, as, in this case, the roatry pulse encoder is installed under the fan cover.
- Not possible for type of construction IM V3.
- Not possible in combination with rotary pulse encoder HOG 9 D 1024I (order code G05) and/or brake 2LM8 (order code F01).
- Not possible in combination with brake 2LM8 order code F01.
- Supplied with the condensation drainage holes sealed at the drive end (DE) and non-drive end (NDE) (IP55, IP56, IP65). If condensation drainage holes are required for motors with IM B6, IM B7 or IM B8 type of construction (feet located on side or top), it is necessary to order the motors in their respective type of construction and order code H03, so that the condensation drainage holes can be mounted in the correct positional arrangement.

- 13) Motors that are prepared for additional mountings (order codes **G40**, **G41**, G42) are supplied without protective cover as standard. If a protective cover is requested as cover or as mechanical protection for mounting provided by the customer, it can be ordered with order code G43. Not possible in combination with order code **L00**, vibration quantity
- <sup>14)</sup> In connection with mountings, the respective technical data must be observed; request required.
- 15) 1LE1 motors in EFF1 version without additional charge (standard version).
- <sup>16)</sup> Possible up to 600 V max. The rated voltage is indicated on the rating
- plate without voltage range.
- <sup>17)</sup> The rated voltage is indicated on the rating plate without voltage range.
- 18) "Small power motors" with a rated output of up to 3 kW which are exported to Japan must bear the PSE marking.
- <sup>19)</sup> Not possible when brake is mounted. <sup>20)</sup> When motors are ordered that have a longer or shorter shaft extension than normal, the required position and length of the featherkey way must
  - be specified in a sketch. It must be ensured that only featherkeys in accordance with DIN 6885, Form A are permitted to be used. The featherkey way is positioned centrally on the shaft extension. The length is defined by the manufacturer normatively. Not valid for: Conical shafts, non-standard threaded journals, non-standard shaft tolerances, friction welded journals, extremely "thin" shafts, special geometry dimensions (e.g. square journals), hollow shafts. Valid for non-standard shaft extensions DE or NDE. The featherkeys are supplied in every case. For order codes Y55 and L05:
    - Dimensions D and DA ≤ internal diameter of roller bearing (see dimesnion tables under "Dimensions") - Dimensions E and EA ≤ 2 x length E (normal) of the shaft extension
  - For an explanation of the order codes, see Catalog D 81.1 part 0.
- <sup>21)</sup> For 1LE1 motors with metal external fan, converter-fed operation is permitted. The metal external fan is not possible in combination with the lownoise version - order code F77 or F78.

Not possible for General L	ine motors with	shorter de	livery time.							
Special versions	Additional identi- fication code <b>-Z</b> with order code and plain text if required	Mo	otor type frame	size						
		56	63	71	80	90	100	112	132	160
Forced-air cooled motors Forced-air cooled motors Self-cooled motors withou Self-cooled motors withou	without externaut externa	al fan and f and fan cov	ian cover wit ver with impr	h high ef oved effi	ficiency ciency	ncy				
	P b .						1LE1/1	PC1 (Alur	ninum)	
Motor connection and connection one cable gland, metal	R15						1	/	1	/
Rotation of the connection box through 90°, entry from DE							0	0	0	0
Rotation of the connection box through 90°, entry from NDE	R11						0	0	0	0
Rotation of the connection box through 180°	R12						0	0	0	0
Larger connection box	R50						1	✓	1	1
Reduction piece for M cable gland in accordance with British standard, both cable entries mounted <sup>1)</sup>	R30						✓	✓	1	<b>√</b>
External earthing	H04						1	✓	1	✓
3 cables protruding, 0.5 m long <sup>2)3)</sup>	R20						1	1	✓	1
3 cables protruding, 1.5 m long <sup>2)3)</sup>	R21						1	✓	✓	1
6 cables protruding, 0.5 m long <sup>2)</sup>	R22						1	1	✓	1
6 cables protruding, 1.5 m long <sup>2)</sup>	R23						1	✓	✓	1
6 cables protruding, 3 m long <sup>2)</sup>	R24						1	1	✓	1
Connection box on NDE 4)	H08						1	1	1	✓
Windings and insulation	Not									
Temperature class 155 (F), used acc. to 155 (F), with service factor (SF)	N01						1	<i>,</i>	<b>/</b>	✓
Temperature class 155 (F), used acc. to 155 (F), with increased output	N02						✓	✓	1	✓
Temperature class 155 (F), used acc. to 155 (F), with increased coolant temperature	N03						✓	✓	1	1
Temperature class 180 (H) at rated power and max. CT 60 °C 5)	N11						✓	1	1	✓
Increased air humidity/ temperature with 30 to 60 g water per m <sup>3</sup> of air	N20						✓	1	1	✓
Temperature class 155 (F), used acc. to 130 (B), coolant temperature 45 °C, derating approx. 4 %	N05						1	1	1	<b>√</b>

with order code

and plain text if required 56 63 90 100 112 132 160 Forced-air cooled motors without external fan and fan cover with improved efficiency Forced-air cooled motors without external fan and fan cover with high efficiency Self-cooled motors without external fan and fan cover with improved efficiency Self-cooled motors without external fan and fan cover with high efficiency 1LE1/1PC1 (Aluminum) Windings and insulation (continued) Temperature class 155 (F), used acc. to 130 (B) coolant temperature 50 °C, derating approx. 8 % Temperature class 155 (F), N07 used acc. to 130 (B), coolant temperature 55 °C. derating approx. 13 % N08 Temperature class 155 (F), used acc. to 130 (B), coolant temperature 60 °C, derating approx. 18 % Increased air humidity/ N21 temperature with 60 to 100 g water per m<sup>3</sup> of air Y52 • and identi-Temperature class 155 (F), / 1 used acc. to 155 (F), fication code other requirements Colors and paint finish Special finish in RAL 7030 stone gray Special finish in other standard **Y54** • and special finish RAL colors: RAL 1002, 1013, 1015, 1019, 2003, 2004, 3000, 3007, 5007, 5009, 5010, 5012, RAL.... 5015, 5017, 5018, 5019, 6011, 6019, 6021, 7000, 7001, 7004, 7011, 7016, 7022, 7031, 7032, 7033, 7035, 9001, 9002, 9005, Special finish in special-RAL Y51 • and colors: for RAL colors, see special finish RAL.... "Special finish in special RAL colors", Catalog D 81.1 part 0 Special finish sea air resistant S03 O. R. O. R. O. R. O. R. Unpainted S00 0 0 0 0 (only cast iron parts primed) Unpainted, only primed S01 Mechanical design and degree of protection Screwed-on feet / 1 1 (instead of cast) Radial seal on DE for flange-H23

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mounting motors with oil resis-

Condensation drainage holes 7) H03

Non-rusting screws (externally) H07 Coolant temperature and site altitude

IP65 degree of protection IP56 degree of protection

Vibration-proof version

Coolant temperature

-40 °C to +40 °C Coolant temperature

-30 °C to +40 °C

H20

H22

H<sub>0</sub>2

D03

D04

tance to 0.1 bar

(non-heavy-sea)

56 63 90 100 112 132 160 Forced-air cooled motors without external fan and fan cover with improved efficiency Forced-air cooled motors without external fan and fan cover with high efficiency Self-cooled motors without external fan and fan cover with improved efficiency Self-cooled motors without external fan and fan cover with high efficiency 1LE1/1PC1 (Aluminum) Designs in accordance with standards and specifications Electrical according to NEMA MG1-12 8) D30 1 Design according to UL with "Recognition Mark" 9) D31 Canadian regulations (CSA) 10) D40 PSE Mark Japan 11) **D46** Bearings and lubrication 1 Q01 Measuring nipple for SPM 1 1 shock pulse measurement for bearing inspection Bearing design for increased L22 canteliver forces Special bearing for DE and L25 NDE, bearing size 63 Regreasing device L23 L20 Located bearing at DE Located bearing at NDE L21 **Balance and vibration quantity** Vibration quantity A Vibration quantity B L00 Half-key balancing (standard) L02 / Full-key balancing / 1 1 Balancing without key L01 / Shaft and rotor Concentricity of shaft exten-L08 sion, coaxiality and linear movement in accordance with DIN 42955 Tolerance R for flange-mounting motors Shaft extension with standard L04 dimensions, without featherkey way Concentricity of shaft exten-L07 sion in accordance with DIN 42955 Tolerance R Standard shaft made of non-L06 / 1 rusting steel Non-standard cylindrical shaft Y55 • and identiextension fication code

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1

Heating and ventillation
Anti-condensation heaters for

115 V

Anti-condensation heaters for

Q02

Q03

63

90

100

112

1LE1/1PC1 (Aluminum)

132

160

Forced-air cooled motors without external fan and fan cover with improved efficiency Forced-air cooled motors without external fan and fan cover with high efficiency Self-cooled motors without external fan and fan cover with improved efficiency

56

Self-cooled motors without external fan and fan cover with high efficiency

Rating plate and extra rating p	olates					
Second rating plate, loose	M10		1	1	1	1
Nirosta rating plate	M11		1	<b>✓</b>	<b>√</b>	1
Extra rating plate or rating plate with deviating rating plate data	Y80 • and identi- fication code		1	✓	1	1
Extra rating plate with identification codes	Y82 • and identi- fication code		1	1	✓	✓
Additional information on rating plate and on package label (max. of 20 characters)	Y84 • and identification code		✓	✓	✓	1
Packaging, safety notes, docu	mentation and te	st certificates				
Without safety and commission- ing note. Customer's declaration of renouncement required.	B00		0	0	0	0
With one safety and start-up guide per box pallet	B01		0	0	0	0
Acceptance test certificate 3.1 in accordance with EN 10204	B02		1	✓	✓	✓
Printed operating instructions English/German enclosed	B04		✓	1	✓	✓
Type test with heat run for horizontal motors, with acceptance	B83		1	1	1	1
Wire-lattice pallet	B99		0	0	0	0
Connected in star for dispatch	M01		1	1	1	✓

Standard version

0 Without additional charge

Connected in delta for dispatch M02

- This order code only determines the price of the version Additional plain text is required.
- O. R. Available on request
- With additional charge

- Not possible in combination with order code R15 "One cable gland,
- In combination with motor protection (position 15 of the Order No.) or with option anti-condensation heater request required
- Not possible in combination with voltage code 22 or 34.
- Not possible in combination with the following order codes: N01, N02, N03, N05, N06, N07, N08, N11.
- Use according to temperature class 155 (F) possible only.
- Cannot be used for motors in UL version (order code D31). The grease lifetime specified in Catalog D 81.1 part 0 refers to CT 40 °C. When the coolant temperature rises by 10 K, the grease lifetime or relubrication interval is halved.
- Not possible for type of construction IM V3.
- Supplied with the condensation drainage holes sealed at the drive end (DE) and non-drive end (NDE) (IP55, IP56, IP65). If condensation drainage holes are required for motors with IM B6, IM B7 or IM B8 type of construction (feet located on side or top), it is necessary to order the motors in their respective type of construction and order code H03, so that the condensation drainage holes can be mounted in the correct positional arrangement.

- 1LE1 motors in EFF1 version without additional charge (standard version).
- Possible up to 600 V max. The rated voltage is indicated on the rating plate without voltage range.
- <sup>10)</sup> The rated voltage is indicated on the rating plate without voltage range.
- 11) "Small power motors" with a rated output of up to 3 kW which are exported to Japan must bear the PSE marking.
- 12) When motors are ordered that have a longer or shorter shaft extension than normal, the required position and length of the featherkey way must be specified in a sketch. It must be ensured that only featherkeys in accordance with DIN 6885, Form A are permitted to be used. The featherkey way is positioned centrally on the shaft extension. The length is defined by the manufacturer normatively. Not valid for: Conical shafts, non-standard threaded journals, non-standard shaft tolerances, friction welded journals, extremely "thin" shafts, special geometry dimensions (e.g. square journals), hollow shafts. Valid for non-standard shaft extensions DE or NDE. The featherkeys are supplied in every case. For order code Y55:
  - Dimensions D and DA ≤ internal diameter of roller bearing (see dimesnion tables under "Dimensions")
- Dimensions E and EA ≤ 2 x length E (normal) of the shaft extension For an explanation of the order codes, see Catalog D 81.1 part 0.