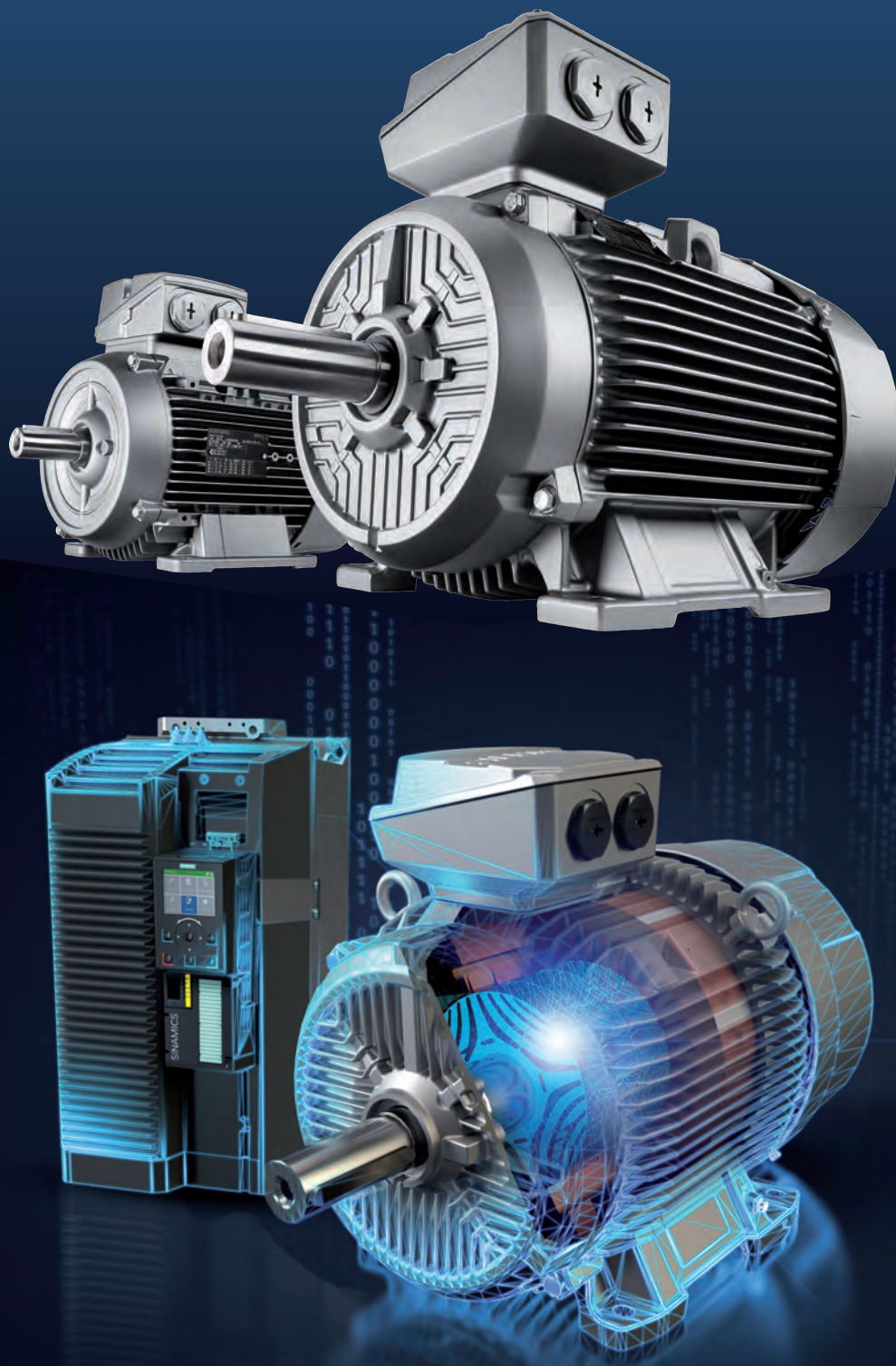


SIEMENS



SIMOTICS 1LE0003 超高效低壓交流異步電動機

SIMOTICS 1LE0003 Premium Efficiency Low-voltage Motors

總體介紹

SIMOTICS 1LE0003 系列超高效低壓電動機是鑄鐵機殼通用型全封閉自扇冷卻或強制冷卻式三相非同步電動機，其防護等級為 IP55，該系列電動機設計生產符合 ISO、IEC、GB 等相關標準的要求。

SIMOTICS 1LE0003 系列超高效低壓電動機適用於連續工作制 (S1)、恒轉速或一定速度範圍內的變頻調速應用。

技術特性

- 機座材料：灰鑄鐵；
- 標準顏色：石頭灰 (RAL 7030)；
- 額定功率：0.55kW~315kW (50Hz)
- 0.75kW 及以上的 2、4、6 極電動機達到 GB18613-2012 標準能效等級 2 級，且能滿足 IEC 60034-30 標準中的 IE3 效率等級 (50Hz)；
- 標準安裝結構類型 (符合 IEC 60034-7 標準規定)：IM B3、IM B5、IM B35 等；
- 所有的電動機設計防護等級為 IP55 (IEC 60034-5)；
- FS¹⁾ 280 ~ 355 標配再潤滑裝置，FS¹⁾ 100 ~ 250 的作為選項；
- 電動機可選 PTC 或 PT100 熱敏電阻或 KTY84-130 進行繞組保護；

1) FS：機座的英文 (Frame Size) 縮寫。

Overview

SIMOTICS 1LE0003 low voltage premium efficiency motor with cast iron housing is Totally Enclosed Fan Cooled (TEFC) or Totally Enclosed Forced Ventilated with IP55 environmental protection, and applicable for general purpose use. These motors are designed and manufactured in accordance with ISO, IEC standards, GB standards.

SIMOTICS 1LE0003 low voltage premium efficiency motor is designed for constant or adjustable speed with continuous duty operation (S1) over a speed range.

Features

- Frame material: grey cast iron.
- Standard color: stone grey (RAL 7030)
- Rated power output: 0.55kW~315kW at 50Hz.
- Available in 2, 4, 6 pole motor (0.75kW and up) with efficiency grade 2, according to GB18613-2012 and efficiency class IE3 (50Hz) according to IEC 60034-30.
- Standard mounting construction according to IEC 60034-7: IM B3, IM B5, IM B35 and etc.
- All motors are designed to IP55 degree of protection (IEC 60034-5).
- Re-greasing devices for FS¹⁾ 280 ~ 355 as standard, and for FS¹⁾ 100 ~ 250 as option.
- Winding protections with PTC, PT100 and KTY84-130 as option.

1) FS, Frame Size

型號與訂貨號 Motor Type and Order No.

電動機型號 Motor Type								電動機訂貨號 Order No.																		
1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	-	8	9	10	11	12	-	13	14	15	16	
0	C	V	3					1	L	E	0	0	0	3	-							-				
鑄鐵殼系列全封閉通風冷卻電動機 Cast iron TEFC motor																										
中國能效等級 2 級 · IE3 效率等級 China energy efficiency grade 2, IE3 efficiency																										
機座號 Frame size 08=80 ; 09=90 ; 10=100 ; 11=112 ; 13=132 ; 16=160 18=180 ; 20=200 ; 22=225 ; 25=250 ; 28=280 ; 31=315 35=355																										
鐵心長 Core length 0 or 1 = S ; 2 or 3 = M ; 4, 5, 6 or 7 = L																										
極數 Poles A = 2 ; B = 4 ; C = 6																										
中國能效等級 2 級 · IE3 效率等級 China energy efficiency grade 2, IE3 efficiency																										
機座號 Frame size 0D = 080 ; 0E = 090 ; 1A = 100 ; 1B = 112 ; 1C = 132 ; 1D = 160 ; 1E = 180 2A = 200 ; 2B = 225 ; 2C = 250 ; 2D = 280 ; 3A = 315 ; 3B = 355																										
極數 Poles A = 2 ; B = 4 ; C = 6																										
鐵心長度 Core length 0 or 1 = S (短鐵心 short) ; 2 or 3 = M (中鐵心 medium) ; 4 or 5 or 6 or 7 = L (長鐵心 long)																										
電壓 · 連接方式和頻率 Voltage, connections and frequency 21 = 220VD/380VY 50Hz 34 = 400VD/690VY 50Hz 35 = 415VD 50Hz 33 = 380VD/660VY 50Hz 04 = 400VD 50Hz 901 = 特殊電壓與頻率 special voltage & frequency 22 = 230VD/400VY 50Hz 23 = 240VD/415VY 50Hz																										
結構和安裝方式 Construction and mounting type A ²⁾ 3) = IM B3 ; T ³⁾ = IM B6 ; U ³⁾ = IM B8 ; V ³⁾ = IM B7 ; C ³⁾ 6) = IM V5 ; D ³⁾ = IM V6 F ³⁾ 4) = IM B5 ; G ³⁾ 4) 6) = IM V1 ; H ³⁾ 4) = IM V3 J ³⁾ IM B35 ; W ³⁾ 6) = IM V15 ; Y ³⁾ = IM V35 K ³⁾ 4) 5) = IM B14 ; M ³⁾ 4) 5) 6) = IM V18 ; L ³⁾ 4) 5) = IM V19 ; N ³⁾ 5) = IM B34																										
繞組保護 Winding protection A = 無繞組保護 without winding protection B = 繞組帶一組三芯串聯的 PTC 熱敏電阻用於跳閘 3 PTC thermistors for tripping C = 繞組帶兩組三芯串聯的 PTC 熱敏電阻用於報警和跳閘 6 PTC thermistors for alarm and tripping F = 繞組帶一個 KTY 84-130 溫度感測器 1 temperature sensor KTY 84-130 H = 繞組帶 3 個 Pt100 測溫元件 3 resistance thermometers Pt100 J = 繞組帶 6 個 Pt100 測溫元件 6 resistance thermometers Pt100 Z ⁸⁾ = 其他繞組保護 Other temperature for winding protection																										
接線盒位置 (從驅動端看) Connection box location (view from drive end) 4 = 置頂 on top ; 5 ⁷⁾ = 右側 on RHS ; 6 ⁷⁾ = 左側 on LHS																										

選型技術數據表 Technical Data Table

機座號 Frame size	電動機型號 Motor type	訂貨號 Order no.	額定功率 Rated output	額定轉速 Rated speed	效率		功率因數 Power factor	額定電流		起動轉矩 Starting torque	最大轉矩 Max. torque	轉動慣量 Moment of inertia (J) (EFF2)	重量 Weight	
					Efficiency at 4/4 load	Efficiency at 3/4 load		A	Nm					A
1500rpm 4-pole 220VD/380VY 50Hz														
80M	OCV3082B	1LE0003-0DB22-1 □□□	0.55	1440	80.8	81.8	0.76	1.36	3.6	5.5	2.2	3.2	0.00216	16.5
80M	OCV3083B	1LE0003-0DB32-1 □□□	0.75	1445	82.5	82.9	0.75	1.84	5.0	6.0	2.7	3.7	0.00250	18.0
90S	OCV3090B	1LE0003-0EB02-1 □□□	1.1	1430	84.1	85.1	0.79	2.50	7.3	6.5	2.7	3.7	0.00389	24
90L	OCV3094B	1LE0003-0EB42-1 □□□	1.5	1440	85.3	86.0	0.79	3.40	9.9	6.5	2.7	3.8	0.00499	27
100L	OCV3102B	1LE0003-1AB42-1 □□□	2.2	1445	86.7	87.1	0.82	4.70	14.5	8.3	3.7	4.6	0.01125	42
100L	OCV3105B	1LE0003-1AB52-1 □□□	3	1450	87.7	88.1	0.82	6.30	19.8	8.3	3.7	4.6	0.01313	46
1500rpm 4-pole 380VD/660VY 50Hz														
112M	OCV3112B	1LE0003-1BB23-3 □□□	4	1450	88.6	89.6	0.82	8.4	26.3	8.3	3.7	4.6	0.0149	52
132S	OCV3130B	1LE0003-1CB03-3 □□□	5.5	1455	89.6	90.9	0.84	11.1	36.1	7.8	2.4	3.8	0.0285	71
132M	OCV3132B	1LE0003-1CB23-3 □□□	7.5	1455	90.4	91.7	0.85	14.8	49.2	7.8	2.4	3.8	0.0356	83
160M	OCV3162B	1LE0003-1DB23-3 □□□	11	1460	91.4	92.4	0.86	21.5	72.0	7.8	2.4	3.8	0.0648	110
160L	OCV3164B	1LE0003-1DB43-3 □□□	15	1460	92.1	92.9	0.86	29.0	98.1	7.8	2.6	3.8	0.0811	134
180M	OCV3182B	1LE0003-1EB23-3 □□□	18.5	1470	92.6	93.0	0.83	36.5	120	7.8	2.6	3.6	0.126	170
180L	OCV3184B	1LE0003-1EB43-3 □□□	22	1470	93.0	93.7	0.83	43.5	143	7.8	2.6	3.6	0.146	192
200L	OCV3204B	1LE0003-2AB43-3 □□□	30	1470	93.6	94.3	0.84	58	195	7.8	2.6	3.6	0.220	255
225S	OCV3220B	1LE0003-2BB03-3 □□□	37	1478	93.9	94.1	0.85	70	239	8.3	3.3	3.6	0.461	315
225M	OCV3222B	1LE0003-2BB23-3 □□□	45	1478	94.2	94.2	0.85	85	291	8.3	3.3	3.6	0.479	342
250M	OCV3252B	1LE0003-2CB23-3 □□□	55	1482	94.6	95.0	0.86	103	354	7.6	2.6	3.3	0.820	440
280S	OCV3280B	1LE0003-2DB03-3 □□□	75	1485	95.0	95.3	0.86	139	482	7.6	2.6	3.0	1.310	580
280M	OCV3282B	1LE0003-2DB23-3 □□□	90	1485	95.2	95.6	0.87	165	579	7.6	2.6	3.0	1.690	685
315S	OCV3310B	1LE0003-3AB03-3 □□□	110	1488	95.4	95.7	0.87	200	706	7.9	3.3	3.0	2.770	800
315M	OCV3312B	1LE0003-3AB23-3 □□□	132	1488	95.6	95.9	0.87	240	847	7.9	3.3	3.0	3.000	1035
315L	OCV3315B	1LE0003-3AB53-3 □□□	160	1488	95.8	96.1	0.87	290	1027	7.9	3.3	3.0	3.140	1065
315L	OCV3316B	1LE0003-3AB63-3 □□□	185	1488	95.9	96.2	0.87	335	1187	7.9	3.3	3.0	3.460	1115
315L	OCV3317B	1LE0003-3AB73-3 □□□	200	1490	96.0	96.3	0.88	360	1282	7.9	3.3	3.0	3.790	1175
355M	OCV3352B	1LE0003-3BB23-3 □□□	220	1492	96.0	96.0	0.88	395	1408	8.0	2.0	3.2	6.9	1670
355M	OCV3353B	1LE0003-3BB33-3 □□□	250	1490	96.0	96.0	0.88	450	1602	7.8	1.8	2.9	6.9	1670
355L	OCV3355B	1LE0003-3BB53-3 □□□	280	1490	96.0	96.1	0.88	500	1795	7.8	1.8	2.9	7.7	1700
355L	OCV3356B	1LE0003-3BB63-3 □□□	315	1490	96.0	96.1	0.88	570	2019	8.0	1.8	2.9	8.5	1790

