

# Product data sheet

## Characteristics

# LC1F800MW

TeSys F contactor - 3P (3 NO) - AC-3 - <= 440 V 800 A - coil 220...230 V DC



### Main

Range	TeSys
Range of product	TeSys F
Product or component type	Contactor
Device short name	LC1F
Contactor application	Motor control Resistive load
Utilisation category	AC-4 AC-1 AC-3
Poles description	3P
[Ue] rated operational voltage	<= 1000 V AC 50/60 Hz <= 460 V DC
[Uc] control circuit voltage	220...230 V DC 220...240 V AC 40...400 Hz
[Ie] rated operational current	1000 A (at <40 °C) at <= 440 V AC AC-1 800 A (at <55 °C) at <= 440 V AC AC-3

### Complementary

[Uiimp] rated impulse withstand voltage	8 kV
[Ith] conventional free air thermal current	1000 A (at 40 °C)
Rated breaking capacity	6400 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	5500 A 40 °C - 10 s 4600 A 40 °C - 30 s 3600 A 40 °C - 1 min 2600 A 40 °C - 3 min 1700 A 40 °C - 10 min
Associated fuse rating	1000 A gG at <= 440 V 800 A aM at <= 440 V
Average impedance	0.12 MΩ - Ith 1000 A 50 Hz
[Ui] rated insulation voltage	1000 V conforming to IEC 60947-4-1 1500 V conforming to VDE 0110 group C
Power dissipation per pole	120 W AC-1 77 W AC-3
Overvoltage category	III
Pole contact composition	3 NO

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Motor power kW	450 KW at 1000 V AC 50/60 Hz (AC-3) 450 KW at 500 V AC 50/60 Hz (AC-3) 475 KW at 660...690 V AC 50/60 Hz (AC-3) 110 KW at 400 V AC 50/60 Hz (AC-4) 450 KW at 380...400 V AC 50/60 Hz (AC-3) 450 KW at 415 V AC 50/60 Hz (AC-3) 450 KW at 440 V AC 50/60 Hz (AC-3) 250 KW at 220...230 V AC 50/60 Hz (AC-3)
Control circuit voltage limits	Operational: 0.85...1.1 Uc (at 55 °C) Drop-out: 0.3...0.5 Uc (at 55 °C)
Mechanical durability	5 Mcycles
Inrush power in W	1900 W (at 20 °C)
Hold-in power consumption in W	12 W at 20 °C
Maximum operating rate	600 Cyc/H 55 °C
Operating time	40...50 ms opening 60...80 ms closing
Connections - terminals	Control circuit: screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm <sup>2</sup> flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm <sup>2</sup> flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> solid without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm <sup>2</sup> solid without cable end Power circuit: bar 2 cable(s) - busbar cross section: 60 x 5 mm Power circuit: bolted connection
Tightening torque	Control circuit: 1.2 N.m Power circuit: 58 N.m
Mounting support	Plate
Heat dissipation	12 W
Power range	250...500 KW at 200...240 V 3 phases 250...500 KW at 380...440 V 3 phases 110...220 KW at 200...240 V 3 phases 250...500 KW at 480...500 V 3 phases
Motor starter type	Direct on-line contactor
Contactor coil voltage	220 V DC standard 230 V DC standard 220 V AC standard 230 V AC standard 240 V AC standard
Standards	IEC 60947-1 JIS C8201-4-1 EN 60947-4-1 EN 60947-1 IEC 60947-4-1
Product certifications	ABS UL CCC CSA RMRoS CB UKCA
Compatibility code	LC1F
Control circuit type	DC standard AC at 40...400 Hz

## Environment

IP degree of protection	IP20 front face with shrouds conforming to IEC 60529 IP20 front face with shrouds conforming to VDE 0106
Protective treatment	TH
Ambient air temperature for operation	-5...55 °C
Ambient air temperature for storage	-60...80 °C
Permissible ambient air temperature around the device	-5...55 °C
Height	304 Mm
Width	309 Mm
Depth	255 Mm

Operating altitude	3000 m without derating
Net weight	18.75 Kg

### Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	33.500 Cm
Package 1 Width	33.000 Cm
Package 1 Length	44.000 Cm
Package 1 Weight	18.455 Kg
Unit Type of Package 2	P06
Number of Units in Package 2	4
Package 2 Height	75.000 Cm
Package 2 Width	60.000 Cm
Package 2 Length	80.000 Cm
Package 2 Weight	82.320 Kg

### Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<input checked="" type="checkbox"/> REACH Declaration
EU RoHS Directive	Compliant <input checked="" type="checkbox"/> EU RoHS Declaration
Mercury free	Yes
China RoHS Regulation	<input checked="" type="checkbox"/> China RoHS Declaration
RoHS exemption information	<input checked="" type="checkbox"/> Yes
Environmental Disclosure	<input checked="" type="checkbox"/> Product Environmental Profile
Circularity Profile	<input checked="" type="checkbox"/> End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>

### Contractual warranty

Warranty	18 months
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Product Life Status : **End of commerc. announced**

LC1F800MW may be replaced by any of the following products:



**LC1G800KUEN**

High power contactor, TeSys Giga, 3 pole (3NO), AC-3 <=440V 800A, standard version, 100...250V wide band AC/DC

Qty 1

Substitution date: |