



TYPE APPROVAL CERTIFICATE
No. **ELE188724CS**

This is to certify that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

<i>Description</i>	CONTACTOR
<i>Type</i>	TeSys F
<i>Applicant</i>	SCHNEIDER ELECTRIC INDUSTRIES SAS 31 RUE PIERRE MENDÈS 38050 EYBENS - GRENOBLE CEDEX 9 FRANCE
<i>Manufacturer</i>	SCHNEIDER ELECTRIC AS
<i>Place of manufacture</i>	CIZOVSKA 447- 397 01 PISEK - CZECH REPUBLIC
<i>Reference standards</i>	RINA Rules for the Classification of Ships - Part C- Machinery, Systems and Fire Protection - Ch.3 , Sect. 6, Table 1

Issued in **GENOA** on **July 9, 2024**. *This Certificate is valid until* **July 8, 2029**

RINA Services S.p.A.
Luigi Benedetti

This certificate consists of this page and 1 enclosure

TYPE APPROVAL CERTIFICATE

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TeSys F

LC1-F115 Single contactor

LC2-F115 Reversing contactor for motor control

Rated thermal current	I _{th}	A	200
Rated insulation voltage	U _i	V	1000
Rated frequency	F	Hz	50-60
Ambient temperature	T _{amb}	°C	40
AC3 Utilization category			
rated operational voltage	U _e	Rated operational current	I _e
230V		95,7A	
400V		97A	
415V		100,3A	
440V		115A	
500V		105,6A	
690V		81,9A	
AC4 Utilization category			
Rated operational voltage	U _e	Rated operational current	I _e
230V		79,8A	
400V		80,9A	
415V		83,6A	
440V		95,9A	
500V		88,0A	
690V		68,3A	
AC1 Utilization category			
Rated operational voltage	U _e	Rated operational current	I _e
230V		200A	
400V			
415V			
440V			
500V			
690V			

LC1-F1154 Single contactor

LC2-F1154 Reversing contactor for motor control

Rated thermal current	I _{th}	A	200
Rated insulation voltage	U _i	V	1000
Rated frequency	F	Hz	50-60
Ambient temperature	T _{amb}	°C	40
AC1 Utilization category			
Rated operational voltage	U _e	Rated operational current	I _e
230V		200A	
400V			
415V			
440V			
500V			
690V			

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LC1-F150 Single contactor

LC2-F150 Reversing contactor for motor control

Rated thermal current	I _{th}	A	250
Rated insulation voltage	U _i	V	1000
Rated frequency	F	Hz	50-60
Ambient temperature	T _{amb}	°C	40
AC3 Utilization category			
rated operational voltage	U _e	Rated operational current	I _e
230V		123,9A	
400V		132A	
415V		136,2A	
440V		150A	
500V		128A	
690V		102,9A	
AC4 Utilization category			
Rated operational voltage	U _e	Rated operational current	I _e
230V		103,3A	
400V		110,0A	
415V		113,5A	
440V		125A	
500V		106,7A	
690V		85,8A	
AC1 Utilization category			
Rated operational voltage	U _e	Rated operational current	I _e
230V		250A	
400V			
415V			
440V			
500V			
690V			

LC1-F1504 Single contactor

LC2-F1504 Reversing contactor for motor control

Rated thermal current	I _{th}	A	250
Rated insulation voltage	U _i	V	1000
Rated frequency	F	Hz	50-60
Ambient temperature	T _{amb}	°C	40
AC1 Utilization category			
Rated operational voltage	U _e	Rated operational current	I _e
230V		250A	
400V			
415V			
440V			
500V			
690V			

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LC1-F185 Single contactor

LC2-F185 Reversing contactor for motor control

Rated thermal current	I _{th}	A	275
Rated insulation voltage	U _i	V	1000
Rated frequency	F	Hz	50-60
Ambient temperature	T _{amb}	°C	40
AC3 Utilization category			
rated operational voltage	U _e	Rated operational current	I _e
230V		168,7A	
400V		160A	
415V		171,1A	
440V		156A	
500V		128A	
690V		113A	
AC4 Utilization category			
Rated operational voltage	U _e	Rated operational current	I _e
230V		140,6A	
400V		133,4A	
415V		142,6A	
440V		154,2A	
500V		130A	
690V		94,2A	
AC1 Utilization category			
Rated operational voltage	U _e	Rated operational current	I _e
230V		275A	
400V			
415V			
440V			
500V			
690V			

LC1-F1854 Single contactor

LC2-F1854 Reversing contactor for motor control

Rated thermal current	I _{th}	A	275
Rated insulation voltage	U _i	V	1000
Rated frequency	F	Hz	50-60
Ambient temperature	T _{amb}	°C	40
AC1 Utilization category			
Rated operational voltage	U _e	Rated operational current	I _e
230V		275A	
400V			
415V			
440V			
500V			
690V			

LC1-F225 Single contactor

LC2-F225 Reversing contactor for motor control

Rated thermal current	I _{th}	A	315
Rated insulation voltage	U _i	V	1000
Rated frequency	F	Hz	50-60
Ambient temperature	T _{amb}	°C	40
AC3 Utilization category			
rated operational voltage	U _e	Rated operational current	I _e
230V		193,1A	
400V		195A	
415V		188A	
440V		225A	
500V		180,2A	
690V		130,6A	
AC4 Utilization category			
Rated operational voltage	U _e	Rated operational current	I _e
230V		161A	
400V		162,5A	
415V		156,7A	
440V		187,5A	
500V		150,2A	
690V		108,9A	
AC1 Utilization category			
Rated operational voltage	U _e	Rated operational current	I _e
230V		315A	
400V			
415V			
440V			
500V			
690V			

LC1-F2254 Single contactor

LC2-F2254 Reversing contactor for motor control

Rated thermal current	I _{th}	A	315
Rated insulation voltage	U _i	V	1000
Rated frequency	F	Hz	50-60
Ambient temperature	T _{amb}	°C	40
AC1 Utilization category			
Rated operational voltage	U _e	Rated operational current	I _e
230V		315A	
400V			
415V			
440V			
500V			
690V			

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LC1-F265 Single contactor

LC2-F265 Reversing contactor for motor control

Rated thermal current	I _{th}	A	350
Rated insulation voltage	U _i	V	1000
Rated frequency	F	Hz	50-60
Ambient temperature	T _{amb}	°C	40
AC3 Utilization category			
rated operational voltage	U _e	Rated operational current	I _e
230V		229,6A	
400V		230A	
415V		235,5A	
440V		265A	
500V		224A	
690V		162,4A	
AC4 Utilization category			
Rated operational voltage	U _e	Rated operational current	I _e
230V		191,4A	
400V		191,7A	
415V		196,3A	
440V		220,9A	
500V		186,7A	
690V		135,4A	
AC1 Utilization category			
Rated operational voltage	U _e	Rated operational current	I _e
230V		350A	
400V			
415V			
440V			
500V			
690V			
1000V			

LC1-F2654 Single contactor

LC2-F2654 Reversing contactor for motor control

Rated thermal current	I _{th}	A	350
Rated insulation voltage	U _i	V	1000
Rated frequency	F	Hz	50-60
Ambient temperature	T _{amb}	°C	40
AC1 Utilization category			
Rated operational voltage	U _e	Rated operational current	I _e
230V		350A	
400V			
415V			
440V			
500V			
690V			
1000V			

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LC1-F330 Single contactor

Rated thermal current	I _{th}	A	400
Rated insulation voltage	U _i	V	1000
Rated frequency	F	Hz	50-60
Ambient temperature	T _{amb}	°C	40
AC3 Utilization category			
rated operational voltage	U _e	Rated operational current	I _e
230V		308,7A	
400V		280A	
415V		303,6A	
440V		330A	
500V		280A	
690V		221,6A	
1000V		112A	
AC1 Utilization category			
Rated operational voltage	U _e	Rated operational current	I _e
230V		400A	
400V			
415V			
440V			
500V			
690V			
1000V			

LC1-F3304 Single contactor

Rated thermal current	I _{th}	A	400A
Rated insulation voltage	U _i	V	1000
Rated frequency	F	Hz	50-60
Ambient temperature	T _{amb}	°C	40
AC1 Utilization category			
Rated operational voltage	U _e	Rated operational current	I _e
230V		400A	
400V			
415V			
440V			
500V			
690V			
1000V			

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LC1-F400 Single contactor

Rated thermal current	I _{th}	A	500
Rated insulation voltage	U _i	V	1000
Rated frequency	F	Hz	50-60
Ambient temperature	T _{amb}	°C	40
AC3 Utilization category			
rated operational voltage	U _e	Rated operational current	I _e
230V		339,1A	
400V		350A	
415V		368,6A	
440V		400A	
500V		353,5A	
690V		278,8A	
1000V		129,5A	
AC1 Utilization category			
Rated operational voltage	U _e	Rated operational current	I _e
230V		500A	
400V			
415V			
440V			
500V			
690V			
1000V			

LC1-F4004 Single contactor

Rated thermal current	I _{th}	A	500
Rated insulation voltage	U _i	V	1000
Rated frequency	F	Hz	50-60
Ambient temperature	T _{amb}	°C	40
AC1 Utilization category			
Rated operational voltage	U _e	Rated operational current	I _e
230V		500A	
400V			
415V			
440V			
500V			
690V			
1000V			

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LC1-F500 Single contactor

Rated thermal current	I _{th}	A	700
Rated insulation voltage	U _i	V	1000
Rated frequency	F	Hz	50-60
Ambient temperature	T _{amb}	°C	40
AC3 Utilization category			
rated operational voltage	U _e	Rated operational current	I _e
230V		446,5A	
400V		430A	
415V		463,5A	
440V		500A	
500V		488A	
690V		333A	
AC1 Utilization category			
Rated operational voltage	U _e	Rated operational current	I _e
230V		700A	
400V			
415V			
440V			
500V			
690V			
1000V			

LC1-F5004 Single contactor

Rated thermal current	I _{th}	A	700
Rated insulation voltage	U _i	V	1000
Rated frequency	F	Hz	50-60
Ambient temperature	T _{amb}	°C	40
AC1 Utilization category			
Rated operational voltage	U _e	Rated operational current	I _e
230V		700A	
400V			
415V			
440V			
500V			
690V			
1000V			

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LC1-F630 Single contactor

Rated thermal current	I _{th}	A	1000
Rated insulation voltage	U _i	V	1000
Rated frequency	F	Hz	50-60
Ambient temperature	T _{amb}	°C	40
AC3 Utilization category			
rated operational voltage	U _e	Rated operational current	I _e
230V		608,7A	
400V		575A	
415V		622,2A	
440V		630A	
500V		552A	
690V		446,7A	
1000V		308,2	
AC1 Utilization category			
Rated operational voltage	U _e	Rated operational current	I _e
230V		1000A	
400V			
415V			
440V			
500V			
690V			
1000V			

LC1-F6304 Single contactor

Rated thermal current	I _{th}	A	1000
Rated insulation voltage	U _i	V	1000
Rated frequency	F	Hz	50-60
Ambient temperature	T _{amb}	°C	40
AC1 Utilization category			
Rated operational voltage	U _e	Rated operational current	I _e
230V		1000A	
400V			
415V			
440V			
500V			
690V			
1000V			

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LC1-F780 Single contactor

Rated thermal current	Ith	A	1600
Rated insulation voltage	Ui	V	1000
Rated frequency	F	Hz	50-60
Ambient temperature	Tamb	°C	40
AC3 Utilization category			
rated operational voltage	Ue	Rated operational current	Ie
230V		664,9A	
400V		690A	
415V		704A	
440V		780A	
500V		616,5A	
690V		469,8A	
1000V		308,2	
AC1 Utilization category			
Rated operational voltage	Ue	Rated operational current	Ie
230V		1600A	
400V			
415V			
440V			
500V			
690V			
1000V			

LC1-F7804 Single contactor

Rated thermal current	Ith	A	1600
Rated insulation voltage	Ui	V	1000
Rated frequency	F	Hz	50-60
Ambient temperature	Tamb	°C	40
AC1 Utilization category			
Rated operational voltage	Ue	Rated operational current	Ie
230V		1600	
400V			
415V			
440V			
500V			
690V			
1000V			

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TEST REPORTS IEC:

N° 00901-CB2019CQC-086982-M2 (2021-07-07)

N° 00901-CB2019CQC-086981-M2 (2021-07-07)

N° 00901-CB2019CQC-088644-M1 (2021-07-06)

N° 00901-CB2019CQC-089498-M2 (2021-07-06)

N° 00901-CB2019CQC-090420-M1 (2021-07-07)

TEST REPORT IACS UR E10:

N° 23119Y30566 (2024-02-08)

Reference documents

-TAO-APP dated.

-Offer N° 2023/27948 dated

The above-mentioned documents have been archived in the Leonardo Draw Plus portal under the project:
<https://leodrawplus.rina.org/transmittals/108484/detail>

GENOA July 09, 2024