

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.

Description	CONTACTOR
Туре	TeSys F
Applicant	SCHNEIDER ELECTRIC INDUSTRIES SAS
	31 RUE PIERRE MENDÈS
	38050 EYBENS - GRENOBLE CEDEX 9
	FRANCE
Manufacturer	SCHNEIDER ELECTRIC AS
Place of manufacture	CIZOVSKA 447- 397 01 PISEK - CZECH REPUBLIC
Reference standards	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 No. ELE188724CS **Enclosure - Page 1 of 11** TeSys F

LC1-F115 Single contactor LC2-F115 Reversing contactor for motor control

2-F115 Reversing contactor for i	notor control		
Rated thermal current	i th	A	200
Rated insulation voltage	Ui	V	1000
Rated frequency	F	Hz	50-60
Ambient temperature	Tamb	°C	40
	AC3 Utilizat	ion category	
rated operational voltage	Ue	Rated operational current	le
230	ō∨	95,	7A
400	٥v	97	7 A
419	5V	100	,3A
440	ō∨	11:	5A
500	ŌV	105	,6A
690	ŌV	81,	9A
	AC4 Utilizat	ion category	
Rated operational voltage	Ue	Rated operational current	le
230	OV .	79,	8A
400	ΟV	80,	9A
41:	5V	83,	6A
440		95,9A	
500		88,	
690		68,	3A
	AC1 Utilizat	ion category	
Rated operational voltage	Ue	Rated operational current	le
230			
400			
41:		30	0.4
440			
500			
690	JV		

LC1-F1154 Single contactor LC2-F1154 Reversing contactor for motor control

- 1 110 11 to voiding delitables for	1110101 00111101		
Rated thermal current	lth	Α	200
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	le
230V			
40	0V		
41	5V		
440V		2 00A	
50	0V	7	
69	0V		

RINA Services S.p.A. Via Corsica, 12 - 16128 Genova Tel +39 010 53851 Fax +39 010 5351000

Enclosure - Page 2 of 11

LC1-F150 Single contactor

LC2-F150 Reversing contactor for motor control

z-i 130 Neversing contactor i	or motor control		
Rated thermal current	Ith	А	250
Rated insulation voltage	Ui	V	1000
Rated frequency	F	Hz	50-60
Ambient temperature	Tamb	°C	40
	AC3 Utiliza	tion category	
rated operational voltage	Ue	Rated operational current	le
23	0V	123	.9A
40	0V	13.	2A
41	5V	136	i,2A
44	0V	15	0A
50	0V	12	8A
69	0V	102	,9A
	AC4 Utiliza	tion category	
Rated operational voltage	Ue	Rated operational current	le
23	0V	103,3A	
40	0V	110	,0A
41	5V	113	,5A
	0V	12	
50	0V	106	i,7A
69	0V	85,	8A
	AC1 Utiliza	tion category	
Rated operational voltage	Ue	Rated operational current	le
23	0V		
	0V		
	5V		0.4
	0V	25	UA
50	0V		
69	0V		

LC1-F1504 Single contactor

LC2-F1504 Reversing contactor for motor control

- 1 100+ Noverbing contactor	TOT THOUGH CONTROL		
Rated thermal current	lth	Α	250
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	le
230V			
400	0V		
41:	5V	7	
440V			
500	0V		
690	0V		

LC1-F185 Single contactor

LC2-F185 Reversing contactor for motor control

2-F 165 Reversing contactor i			
Rated thermal current	Ith	Α	275
Rated insulation voltage	Ui	V	1000
Rated frequency	L	Hz	50-60
Ambient temperature	Tamb	°C	40
	AC3 Utilizat	ion category	
rated operational voltage	Ue	Rated operational current	le
23	0V	168	,7A
40	0V	160	0A
41:	5V	171	,1A
44	0V	150	6A
50	0V	128	8A
69	0V	11:	3A
	AC4 Utilizat	ion category	
Rated operational voltage	Ue	Rated operational current	le
230V		140	,6A
40	0V	133	,4A
41:	5V	142	,6A
44	0V	154	,2A
	500V		0A
69		94,	2A
	AC1 Utilizat	ion category	
Rated operational voltage	Ue	Rated operational current	le
	0V		
400V			
41:		077	E ^
44		275A	
50			
69	0V		

LC1-F1854 Single contactor

LC2-F1854 Reversing contactor for motor control

22-1 100- Neversing contactor	TOT THOUSE CONTROL		
Rated thermal current	Ith	A	275
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	le
23	230V		
40	0V		
41	5V		
44	0V	275A	
50	0V		
69	0V		

LC1-F225 Single contactor LC2-F225 Reversing contactor for motor control

2-F225 Reversing contactor t	or motor control		
Rated thermal current	Ith	A	315
Rated insulation voltage	Ui	V	1000
Rated frequency	F	Hz	50-60
Ambient temperature	Tamb	°C	40
	AC3 Utiliza	tion category	
rated operational voltage	Ue	Rated operational current	le
23	0V	193	1A
40	0V	195	5A
41:	5V	188	BA
44	0V	225	5A
50	0V	180.	2A
69	0V	130,	6A
	AC4 Utiliza	tion category	
Rated operational voltage	Ue	Rated operational current	le
23	0V	161A	
400V		162,5A	
41:	5V	156	7A
44	0V	187,5A	
50	0V	150	2A
69		108	9A
	AC1 Utiliza	tion category	
Rated operational voltage	Ue	Rated operational current	le
23	0V		
40	0V]	
41:			- A
44		315A	
50]	
69	0V		
· · · · · · · · · · · · · · · · · · ·	·	·	·

LC1-F2254 Single contactor

LC2-F2254 Reversing contactor for motor control

Rated thermal current	lth	Α	315
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	le
23	0V	·	
40	0V		
415V			
44	440V		5A
50	0V	\neg	
69	0V		

Enclosure - Page 5 of 11

LC1-F265 Single contactor

LC2-F265 Reversing contactor for motor control

Rated thermal current	Ith	A	350	
Rated insulation voltage	Ui	V	1000	
Rated frequency	F	Hz	50-60	
Ambient temperature	Tamb	°C	40	
·	AC3 Utiliza	ation category		
rated operational voltage	Ue	Rated operational current	le	
23	0V	229,	6A	
40	0V	230	Α	
41	5V	235,	5A	
44		265	SA .	
50	0V	224		
69		162,	4A	
		ation category		
Rated operational voltage	Ue	Rated operational current	le	
230V			191,4A	
40		191,		
41		196,		
44		220,		
50		186,		
69		135,	4A	
		ation category		
Rated operational voltage	Ue	Rated operational current	le	
23				
40				
415V]		
44		350	A	
50				
69				
100	00V			

LC1-F2654 Single contactor

LC2-F2654 Reversing contactor for motor control

E i Edd i i tordiding dontadto			
Rated thermal current	lth	Α	350
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	le
23	0V	·	
40	0V		
41:	5V		
44	0V	350	0A
500V		7	
69	0V		
100)0V		

Enclosure - Page 6 of 11

LC1-F330 Single contactor

71-1 330 Olligie contactor			
Rated thermal current	Ith	A	400
Rated insulation voltage	Ui	V	1000
Rated frequency	F	Hz	50-60
Ambient temperature	Tamb	°C	40
	AC3 Utilizat	ion category	
rated operational voltage	Ue	Rated operational current	le
23	0V	308	,7A
40	0V	280	DA .
41	5V	303	,6A
44	0V	330A	
50	0V	280A	
690V		221	,6A
100	00V	112A	
	AC1 Utilizat	ion category	
Rated operational voltage	Ue	Rated operational current	le
23	0V		
40	0V	7	
415V		400A	
440V			
500V			
69	0V		
100	00V		
			

LC1-F3304 Single contactor

Rated thermal current	lth	Α	400A	
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	le	
230V		400A		
400V				
415V				
440V				
500V				
690V				
1000V				

Enclosure - Page 7 of 11

LC1-F400 Single contactor

lth	Α	500	
Ui	V	1000	
F	Hz	50-60	
Tamb	°C	40	
AC3 Utilizat	ion category		
Ue	Rated operational current	le	
0V	339	,1A	
0V	350	DA .	
5V	368,6A		
0V	400A		
OV	353,5A		
690V		278,8A	
1000V		129,5A	
AC1 Utilizat	ion category		
Ue	Rated operational current	le	
OV			
OV			
415V 440V 500V 690V		500A	
		00V	
	Ui F Tamb AC3 Utilizat Ue OV	Ui V F Hz Tamb °C AC3 Utilization category Ue Rated operational current OV 339 OV 368 OV 400 OV 353 OV 129 AC1 Utilization category Rated operational current OV 500 OV 500	

LC1-F4004 Single contactor

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

Enclosure - Page 8 of 11

LC1-F500 Single contactor

Ith	Λ Ι	700	
	V	1000	
F	Hz	50-60	
Tamb	°C	40	
AC3 Utilizat	ion category		
Ue	Rated operational current	le	
0V	446	,5A	
0V	430	0A	
5V	463,5A		
0V	500A		
500V		488A	
690V		333A	
AC1 Utilizat	ion category		
Rated operational voltage Ue		le	
230V		<u> </u>	
0V	1		
415V		700A	
440V			
500V			
690V			
1000V			
	AC3 Utilizat Ue DV DV DV DV DV DV DV AC1 Utilizat Ue DV DV DV DV DV DV DV DV DV	Ui V F Hz Tamb °C AC3 Utilization category Ue Rated operational current OV 446 OV 430 OV 500 OV 500 AC1 Utilization category Ue Rated operational current OV 700 AC2 Utilization category Ue Rated operational current OV 700 OV 700 OV 700 OV 700	

LC1-F5004 Single contactor

lth	Α	700		
Ui	V	1000		
F	Hz	50-60		
Tamb	°C	40		
AC1 Utilization category				
Ue	Rated operational current	le		
230V		700A		
400V				
415V				
440V				
500V				
690V				
1000V				
	Ui F Tamb AC1 Utilizati Ue 0V 0V 5V 0V 0V	Ui V F Hz Tamb °C AC1 Utilization category Ue Rated operational current 0V 0V 5V 0V 0V 0V 0V 0V 0V 0V		

LC1-F630 Single contactor

Ith	A	1000	
Ui	V	1000	
F	Hz	50-60	
Tamb	°C	40	
AC3 Utilizat	ion category		
Ue	Rated operational current	le	
0V	608	,7A	
0V	575	5A	
5V	622,2A		
0V	630A		
500V		552A	
690V		446,7A	
1000V		308,2	
AC1 Utilizat	ion category		
Ue	Rated operational current	le	
Rated operational voltage Ue			
0V	1		
415V		1000A	
440V			
500V 690V			
	Ui F Tamb AC3 Utilizat Ue 0V 0V 5V 0V	Ui V F Hz Tamb °C AC3 Utilization category Ue Rated operational current 0V 608 0V 579 5V 622 0V 630 0V 552 0V 446 00V 308 AC1 Utilization category Rated operational current 0V 0V 5V 0V 0V 100 0V 0V 0V 100 0V 0V 0V 0V	

LC1-F6304 Single contactor

Rated thermal current	lth	Α	1000		
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 le			
23	230V				
400V		1000A			
415V					
440V					
500V					
690V					
1000V					

Enclosure - Page 10 of 11

LC1-F780 Single contactor

Pated thermal current	Ith	l A	1600
Rated thermal current	lth		1600
Rated insulation voltage	Ui	V	1000
Rated frequency	F	Hz	50-60
Ambient temperature	Tamb	°C	40
	AC3 Utilizat	ion category	
rated operational voltage	Ue	Rated operational current	le
23	0V	664	,9A
40	0V	690	0A
41	5V	704A	
44	0V	780A	
50	0V	616,5A	
690V		469,8A	
1000V		308,2	
	AC1 Utilizat	ion category	
Rated operational voltage	Ue	Rated operational current	le
23	0V		
40	0V	1	
415V		1600A	
440V			
500V 690V			

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 Utilizat	ion category	
Rated operational voltage	Ue	Rated operational current	le
230V		1600	
400V 415V			
500V			
690V			
1000V			

Enclosure - Page 11 of 11

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

RINA Services S.p.A. Via Corsica, 12 - 16128 Genova Tel +39 010 53851 Fax +39 010 5351000