

According to UL508 standard and CSA C22.2 No.14 standard

UL FILE No. E243511

Power Circuit and Motor-mounted Apparatus - Component Ratings - Environmental

Series	Model	Requirements Evaluated to (US and/or CN)	Environmental	
			Maximum Surrounding Air Temperature rating	Pollution Degree
F01P	F01P *** S05	USR	105°C.	2
F02P	F02P *** S05	USR	105°C.	2
F03P	F03P *** S05	USR	105°C.	2
F23P	F23P *** S05R	USR, CNR	85°C.	2
F26P	F26P *** S05, F26P *** S05A, F26P *** S05B	USR	85°C.	2
L07P	L07P *** D15, L07P *** D15S, L07P *** S05	USR, CNR	80°C.	2
L18P	L18P *** D12, L18P *** D15, L18P *** D15-OP, L18P *** D15AH, SL18P *** D15, L18P *** D15AHV, L18P *** D15L	USR, CNR	85°C.	2
	L18P *** D15C, L18P *** S05, L18P *** S05R, L18P *** S12		80°C.	2
L31S	L31S *** S05FS	USR	85°C.	2
L32P	L32P *** S05FS, L32P *** S05BFS, L32P *** S05BK, L32P *** S05BKF	USR	85°C.	2
L34S	L34S *** D15	USR, CNR	80°C.	2
	L34S *** D15T		105°C.	2
L37S/ L37P	L37S *** D15J, L37S *** D15M, L37S *** D15LJ, L37S *** D15LM, L37P *** D15, L37S *** S05J, L37S *** S05M	USR	85°C.	2
	L37S *** D15EY, L37S *** D15EJ, L37S *** D15EM	USR, CNR		
L51S	L51S *** D15J, L51S *** D15M, L51S *** D15LJ, L51S *** D15LM, L51S *** D15CJ, L51S *** D15CM	USR, CNR	105°C.	2
	L51S *** D15Y, L51S *** D15LY, L51S *** D15CY		85°C.	2
L52S	L52S *** D15	USR	105°C.	2
L55S	L55S *** D15	USR, CNR	105°C.	2
LA02P	LA02P *** S03	USR, CNR	110°C.	2
LA03P	LA03P *** S05	USR, CNR	110°C.	2
LA16P	LA16P *** S03, LA16P *** S05	USR, CNR	105°C.	2
LA17P	LA17P *** S05	USR, CNR	105°C.	2

Note

US indicates United States Standard. CN indicates Canadian National Standard.

Note

Models F01P; may be followed by 006, 015, 025 or 050, followed by S05, may be followed by D, or L, may be followed by slash and any numbers from 01 through 99 or blank. **Models F02P;** followed by 001 through 050 or 1R1 through 49R9, followed by S05, may be followed by D, L, -P0, -P1, -P2, -P3, -P4, -P5, -P6, -P7, -P8, -P9, -PA, -PB, -PC, -PD, -PE or -PF, may be followed by slash and any numbers from 01 through 99 or blank. **Models F02P(2);** followed by 001 through 075 or 1R1 through 74R9, followed by S05, may be followed by -PF, may be followed by slash and any numbers from 01 through 99 or blank. **Models F03P;** followed by 006, 015, 025 or 050, followed by S05, may be followed by D, L, -P1, -P2, -P3, -P4, -P5, -P6, -P7, -P8, -P9, -PA, -PB, -PC, -PD, -PE or -PF, may be followed by slash and any numbers from 01 through 99 or blank, may be prefixed by V. **Models L18P(without cover);** followed by 001 through 065 or 01R1 through 65R1, followed by D or S, followed by 05, 12 or 15, may be followed by A, B, H, L, -OP, P, R, S, T, W or V, may be followed by /XX, -XX, /DE or /LS, where "XX" maybe 0 through 99, represent the modified products, or A through ZZ, represent special code from customer. **Models L18P(with cover);** Current Transducers, (S)L18P series, Models L18P or SL18P, followed by 001 through 060 or 01R1 through 59R9, followed by D or S, followed by 05, 12 or 15, may be followed by A, B, C, H, L, -OP, P, R, S, T, W or V, may be followed by /XX, -XX, /DE or /LS, where "XX" maybe 0 through 99, represent the modified products, or A through ZZ, represent special code from customer. **Models L32P;** L32PxxxS05Bzz, L32PxxxS05BzzK, L32PyxyS05zz, where "xxx" maybe 001 through 200, where "yyy" maybe 001 through 400, where "zz" maybe F, S, FS or blank. All models maybe followed by /xx, where "xx" maybe 0 through 99, or A through ZZ, represent special code from customer. **Models L37S and L37P;** may be followed by "/" and two digits letter(s) and/or number(s) may be followed by five digits "-", "/" and/or letter(s). **Models L51S;** followed by 010 through 990, 1T0 through 4T9 or 5T0, followed by D15, may be followed by C or L, followed by J, M or M-A, may be followed by 1, may be followed by W. **Models L51S(2);** followed by 010 through 990, 1T0 through 2T9 or 3T0, followed by D15, may be followed by C or L, followed by Y, may be followed by 1, may be followed by W. **Models L52S;** followed by 100 to 999, 1001 to 1999, 2001 to 2999, 1T0 to 1T9, 2T0 to 2T9 or 3T0, followed by D15, D15M, D15M-A or D15S, may be followed by "-", "/", number(s) and/or letter(s). **Models L55S;** followed by 500 through 999, 1001 through 1999, 2001 through 2999, 3001 through 3999, 4001 through 4999, 1T0 through 1T9, 2T0 through 2T9, 3T0 through 3T9, 4T0 through 4T9 or 5T0, followed by D15M or D15M-A, may be followed by "-", "/", number(s) and/or letter(s). **Models LA16P;** followed by 001 through 100 or 1R1 through 99R9, followed by S, followed by 05 or 03, maybe followed by "-", "/", number(s) and/or letter(s). **Models LA17P;** followed 01 through 199, followed by R, followed by 1 through 9, followed by S05 or S05P, may be followed by 0 through 8, may be followed by five digits "-", "/" and/or letter(s).

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Series	Model	Requirements Evaluated to (US and/or CN)	Environmental	
			Maximum Surrounding Air Temperature rating	Pollution Degree
LA37S	LA37S *** S05M, LA37S *** S05J, LA37S *** S05J1, LA37S *** S05KM, LA37S *** S05KJ, LA37S *** S05KJ1	USR, CNR	105°C.	2
S21S	S21S180D15JN	USR, CNR	80°C.	2
S22P	S22P *** S05, S22P *** S05P, S22P *** S05M2	USR, CNR	85°C.	2
S23P	S23P50/100D15, S23P50/100D15M1, S23P50/100D15M2	USR, CNR	85°C.	2
S25P	S25P *** D15 *	USR, CNR	85°C.	2
S26P	S26P200D15Y	USR, CNR	85°C.	2
S27S	S27S300D15Y, S27S300D15YM	USR, CNR	85°C.	2
S28S	S28S500D24Z, S28S500D24ZM, S28S500D24ZJ	USR	70°C.	2
S29S	S29S1T0D24Z, S29S1T0D24ZM, S29S1T0D24ZJ	USR	85°C.	2
S30S	S30S2T0D24Z, S30S2T0D24ZM, S30S2T0D24ZJ	USR, CNR	85°C.	2
S42S	S42S1T0D24Z, S42S1T0D24ZM, S42S1T0D24ZJ	USR, CNR	85°C.	2
Z05P	Z05P***S05, Z05P***S05P	USR, CNR	105°C.	2

Note

US indicates United States Standard. CN indicates Canadian National Standard.

Note

Models LA37S; followed by 0 through 8, may be followed by five digits "-", "/" and/or letter(s), may be followed by "/" and two digits letter(s) and/or number(s).

CSA FILE No. 218328

Industrial control Equipment - Miscellaneous Apparatus Ratings - Environmental

Series	Model	Requirements Evaluated to (US and/or CN)	Environmental	
			Maximum Surrounding Air Temperature rating	Pollution Degree
L40S	L40S *** D15J, L40S *** D15M, L40S *** D15CJ, L40S *** D15CM	USR, CNR	105°C.	2

Note

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According to UL508 standard and CSA C22.2 No.14 standard

Ratings - Electrical

Series	Model	Primary (Feed-through)	Secondary (Sensing)	
			Input	Output
F01P	F01P006S05	6 A, 600 Vrms	5 Vdc, 25 mA	2.5 ± 2.2 Vdc, ± 0.5 mA
	F01P015S05	15 A, 600 Vrms	5 Vdc, 30 mA	
	F01P025S05	25 A, 600 Vrms	5 Vdc, 35 mA	
	F01P050S05	50 A, 600 Vrms	5 Vdc, 55 mA	
F02P	F02P006S05	6 A, 600 Vrms	5 Vdc, 25 mA	2.5 ± 2.2 Vdc, ± 0.5 mA
	F02P015S05	15 A, 600 Vrms	5 Vdc, 30 mA	
	F02P025S05	25 A, 600 Vrms	5 Vdc, 35 mA	
	F02P050S05	50 A, 600 Vrms	5 Vdc, 55 mA	
	F02P***S05-PF	Max 75A, 600 Vrms	5 Vdc, Max 85mA	
F03P	F03P006S05	6 A, 600 Vrms	5 Vdc, 25 mA	2.5 ± 2.2 Vdc, ± 0.5 mA
	F03P015S05	15 A, 600 Vrms	5 Vdc, 30 mA	
	F03P025S05	25 A, 600 Vrms	5 Vdc, 35 mA	
	F03P050S05	50 A, 600 Vrms	5 Vdc, 55 mA	
F23P	F23P050S05R	50 A, 600 Vrms	5 Vdc, 55mA	2.5 ± 2.2 Vdc, ± 0.5mA
	F23P100S05R	100 A, 600 Vrms	5 Vdc, 110mA	
F26P	F26P050S05 F26P050S05A	50 A, 1000 Vrms	5 Vdc, 60 mA	0 ~ 4.625 Vdc, 0 ± 0.35 mA
	F26P100S05 F26P100S05A	100 A, 1000 Vrms	5 Vdc, 100 mA	
	F26P100S05B	100 A, 600 Vrms	5 Vdc, 100 mA	
	F26P150S05 F26P150S05A	150 A, 1000 Vrms	5 Vdc, 115 mA	
L07P	L07P003D15 L07P003D15S	3 A, 600 Vrms	± 15 Vdc, ± 30 mA	0 - 4 Vdc, 0.4 mA
	L07P005D15 L07P005D15S	5 A, 600 Vrms		
	L07P010D15 L07P010D15S	10 A, 600 Vrms		
	L07P015D15 L07P015D15S	15 A, 600 Vrms		
	L07P020D15 L07P020D15S	20 A, 600 Vrms		
	L07P025D15 L07P025D15S	25 A, 600 Vrms		
	L07P030D15 L07P030D15S	30 A, 600 Vrms		
L07P	L07P003S05	3 A, 600 Vrms	5 Vdc, 30 mA	0 - 3.75 Vdc, 0.4 mA
	L07P005S05	5 A, 600 Vrms		
	L07P010S05	10 A, 600 Vrms		
	L07P015S05	15 A, 600 Vrms		
	L07P020S05	20 A, 600 Vrms		
	L07P025S05	25 A, 600 Vrms		
	L07P030S05	30 A, 600 Vrms		
L18P	All models in (S)L18PxxxD15 family (except "C") L18P***D15 L18P***D15L L18P***D15-OP L18P***D15AH L18P***D15AHV SL18P***D15	1 A through 65.1 A at 0.1 A increments, 600 Vrms	± 15 Vdc, ± 20 mA	0 - 4 Vdc, 0.4 mA
	*** : 001 through 065: 1 A through 65A, 1R1 through 65R1: 1.1 A through 65.1 A (Step interval 0.1 A)			

Series	Model	Primary (Feed-through)	Secondary (Sensing)	
			Input	Output
L18P	All models in (S)L18PxxxD12 family (except "C") L18P***D12 L18P***D12L L18P***D12AHV	1 A through 65.1 A at 0.1 A increments, 600 Vrms	± 12 Vdc, ± 20 mA	0 - 4 Vdc, 0.4 mA
	*** : 001 through 065: 1 A through 65A, 1R1 through 65R1: 1.1 A through 65.1 A (Step interval 0.1 A)			
L18P	L18P***D15C	1 A through 60 A at 0.1 A increments, 600 Vrms	± 15 Vdc, ± 20 mA	0 - 4 Vdc, 0.4 mA
	L18P***D12C		± 12 Vdc, ± 20 mA	0 - 4 Vdc, 0.4 mA
	*** : 001 through 060: 1 A through 60 A, 1R1 through 59R9: 1.1 A through 59.9 A (Step interval 0.1 A)			
L18P	L18P***S12	1 A through 60 A at 0.1 A increments, 600 Vrms	12Vdc, 15 mA	0 - 4 Vdc, 0.4 mA
	L18P***S05 L18P***S05R		5Vdc, 15 mA	0 - 4 Vdc, 0.4 mA
	*** : 001 through 060: 1 A through 60 A, 1R1 through 59R9: 1.1 A through 59.9 A (Step interval 0.1 A)			
L31S	L31S050S05S L31S050S05FS	50 A, 600 Vrms	5 Vdc, 15 mA	1.875 - 3.125 Vdc, 0.3125 mA
	L31S100S05S L31S100S05FS	100 A, 600 Vrms		
	L31S200S05S L31S200S05FS	200 A, 600 Vrms		
	L31S300S05S L31S300S05FS	300 A, 600 Vrms		
	L31S400S05S L31S400S05FS	400 A, 600 Vrms		
	L31S500S05S L31S500S05FS	500 A, 600 Vrms		
L32P	L32PxxxS05FS	400 Amax, 600 Vrms	5 Vdc, 20 mA	2.5 ± 0.625 Vdc, 0.3125 mA
	L32PxxxS05BFS	200 Amax, 600 Vrms		
	L32PxxxS05BK L32PxxxS05BKF	200 Amax, 600 Vrms	5 Vdc, 20 mA	2.5 ± 0.8Vdc, 0.33 mA
L34S	L34S200D15 L34S200D15T	200 A, 600 Vrms	± 15 Vdc, ± 25mA	0 - 4 Vdc, 0.4 mA
	L34S300D15 L34S300D15T	300 A, 600 Vrms		
	L34S400D15 L34S400D15T	400 A, 600 Vrms		
	L34S500D15 L34S500D15T	500 A, 600 Vrms		
	L34S600D15 L34S600D15T	600 A, 600 Vrms		
	L34S800D15 L34S800D15T	800 A, 600 Vrms		
	L34S1T0D15 L34S1T0D15T	1000 A, 600 Vrms		
	L34S1T2D15 L34S1T2D15T	1200 A, 600 Vrms		
	L34S1T5D15 L34S1T5D15T	1500 A, 600 Vrms		

Note

For models F01P, F02P, F03P, L18P and L32P, see note on page 1.

According to UL508 standard and CSA C22.2 No.14 standard

Ratings - Electrical

Series	Model	Primary (Feed-through)	Secondary (Sensing)	
			Input	Output
L37S	L37S050D15J L37S050D15M L37S050D15LJ L37S050D15LM	50 A, 600 Vrms	± 15 Vdc, ± 25 mA	0 - 4 Vdc, 0.4 mA
	L37S100D15J L37S100D15M L37S100D15LJ L37S100D15LM	100 A, 600 Vrms		
	L37S200D15J L37S200D15M L37S200D15LJ L37S200D15LM	200 A, 600 Vrms		
	L37S300D15J L37S300D15M L37S300D15LJ L37S300D15LM	300 A, 600 Vrms		
	L37S400D15J L37S400D15M L37S400D15LJ L37S400D15LM	400 A, 600 Vrms		
	L37S500D15J L37S500D15M L37S500D15LJ L37S500D15LM	500 A, 600 Vrms		
	L37S600D15J L37S600D15M L37S600D15LJ L37S600D15LM	600 A, 600 Vrms		
	L37S050S05J L37S050S05M	50 A, 600 Vrms	5 Vdc, 20 mA	2.5 ± 0.625 Vdc, 0.3125 mA
	L37S100S05J L37S100S05M	100 A, 600 Vrms		
	L37S200S05J L37S200S05M	200 A, 600 Vrms		
	L37S300S05J L37S300S05M	300 A, 600 Vrms		
	L37S400S05J L37S400S05M	400 A, 600 Vrms		
	L37S500S05J L37S500S05M	500 A, 600 Vrms		
	L37S600S05J L37S600S05M	600 A, 600 Vrms		
	L37S050D15EY L37S050D15EJ L37S050D15EM	50 A, 1000 Vrms	± 15 Vdc, ± 25 mA	0 - 4 Vdc, 0.4 mA
	L37S100D15EY L37S100D15EJ L37S100D15EM	100 A, 1000 Vrms		
	L37S200D15EY L37S200D15EJ L37S200D15EM	200 A, 1000 Vrms		
	L37S300D15EY L37S300D15EJ L37S300D15EM	300 A, 1000 Vrms		
	L37S400D15EY L37S400D15EJ L37S400D15EM	400 A, 1000 Vrms		
	L37S500D15EY L37S500D15EJ L37S500D15EM	500 A, 1000 Vrms		
	L37S600D15EY L37S600D15EJ L37S600D15EM	600 A, 1000 Vrms		

Series	Model	Primary (Feed-through)	Secondary (Sensing)	
			Input	Output
L37P	L37P050D15	50 A, 300 Vrms	± 15 Vdc, ± 25 mA	0 - 4 Vdc, 0.4 mA
	L37P100D15	100 A, 300 Vrms		
	L37P200D15	200 A, 300 Vrms		
	L37P300D15	300 A, 300 Vrms		
	L37P400D15	400 A, 300 Vrms		
	L37P500D15	500 A, 300 Vrms		
	L37P600D15	600 A, 300 Vrms		
L40S	L40S200D15J L40S200D15M	200 A, 600 Vrms	± 15 Vdc, ± 17 mA	0 \pm 4.0Vdc, ± 0.4 mA
	L40S400D15J L40S400D15M	400 A, 600 Vrms		
	L40S500D15J L40S500D15M	500 A, 600 Vrms		
	L40S600D15J L40S600D15M	600 A, 600 Vrms		
	L40S800D15J L40S800D15M	800 A, 600 Vrms		
	L40S1T0D15J L40S1T0D15M	1000 A, 600 Vrms		
	L40S1T2D15J L40S1T2D15M	1200 A, 600 Vrms		
	L40S1T5D15J L40S1T5D15M	1500 A, 600 Vrms		
	L40S200D15CJ L40S200D15CM	200 A, 1500 Vrms		
	L40S400D15CJ L40S400D15CM	400 A, 1500 Vrms		
	L40S500D15CJ L40S500D15CM	500 A, 1500 Vrms		
	L40S600D15CJ L40S600D15CM	600 A, 1500 Vrms		
	L40S800D15CJ L40S800D15CM	800 A, 1500 Vrms		
	L40S1T0D15CJ L40S1T0D15CM	1000 A, 1500 Vrms		
	L40S1T2D15CJ L40S1T2D15CM	1200 A, 1500 Vrms		
	L40S1T5D15CJ L40S1T5D15CM	1500 A, 1500 Vrms		
L51S	L51SxxxD15J L51SxxxD15M L51SxxxD15LJ L51SxxxD15LM	5000 Amax, 600 Vrms	± 15 Vdc, 25 mA	± 4 Vdc, 0.4 mA
	L51SxxxD15CJ L51SxxxD15CM	5000 Amax, 1500 Vrms		
	L51SxxxD15Y L51SxxxD15LY	3000 Amax, 600 Vrms		
	L51SxxxD15CY	3000 Amax, 1500 Vrms		
L52S	All models in L52S series (L52S100 to L52S3T0)	100 A through 3000 A, 600Vrms See "Primary current rating" designation in the nomenclature for details.	± 15 Vdc, 20mA	± 4 Vdc, 0.4 mA
L55S	All models in L55S series (L55S500 to L55S5T0)	500 A through 5000 A 1000Vrms See nomenclature.	± 15 Vdc, 20mA	± 4 Vdc, 0.4 mA

Note

For models L37S, L37P, L51S, L52S and L55S see note on page 1.

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Ratings - Electrical

Series	Model	Primary (Feed-through)	Secondary (Sensing)	
			Input	Output
LA02P	LA02P021S03	50 A, 480Vac	3.3Vdc, 0.5mA	3.3Vdc, 0.5mA
	LA02P035S03			
	LA02P054S03			
	LA02P085S03			
LA03P	LA03P021S05	50 A, 480Vac	5Vdc, 0.5mA	5Vdc, 0.5mA
	LA03P035S05			
	LA03P054S05			
	LA03P085S05			
LA16P	LA16P***S03 LA16P***S05	± 100 A MAX., 600 Vrms	5 Vdc Max., 23 mA Max.	2.5 ± 0.8 Vdc Max., 5 mA Max.
LA17P	LA17PxxxS05	1 - 200 A, 600Vrms	+5Vdc, 15mA	0 Vdc through 5 Vdc, reference voltage as follows
	with blank or 0 or 4			2.5 Vdc, 0 ± 0.5 mA
	with 1 or 5			1.65 Vdc, 0 ± 0.5 mA
	with 2 or 6			1.5 Vdc, 0 ± 0.5 mA
	with 3 or 7			0.5 Vdc, 0 ± 0.5 mA
	with blank or 8			0.5 Vdc through 2.5 Vdc, 0 ± 0.5 mA
LA37S	LA37S050S05@	50 A, 600 Vrms	+5Vdc, max. 23mA	2.5 ± 0.8 Vdc, 0.33 mA
	LA37S100S05@	100 A, 600 Vrms		
	LA37S200S05@	200 A, 600 Vrms		
	LA37S300S05@	300 A, 600 Vrms		
	LA37S400S05@	400 A, 600 Vrms		
	LA37S500S05@	500 A, 600 Vrms		
	LA37S600S05@	600 A, 600 Vrms	+5Vdc, max. 23mA	2.5 ± 0.625 Vdc, 0.3125 mA
	LA37S050S05K@	50 A, 600 Vrms		
	LA37S100S05K@	100 A, 600 Vrms		
	LA37S200S05K@	200 A, 600 Vrms		
	LA37S300S05K@	300 A, 600 Vrms		
	LA37S400S05K@	400 A, 600 Vrms		
	LA37S500S05K@	500 A, 600 Vrms		
	LA37S600S05K@	600 A, 600 Vrms		
@ - Replaced with J, J1, M				
Z05P	Z05P0R3S05	300 mA, 600 Vrms	+5Vdc, +17.5mA	2.5 ± 2.2 Vdc, 0. ± 0.5 mA
	Z05P0R3S05P			
	Z05P0R6S05	600 mA, 600 Vrms		
	Z05P0R6S05P			

Series	Model	Primary (Feed-through)	Secondary (Sensing)	
			Input	Output
S21S	S21S180D15JN	180 A, 600 Vrms	± 15 Vdc, ± 25mA	0 - 1.35 Vdc, 45mA
	S22P006S05 S22P006S05P S22P006S05M2	6 A, 600 Vrms	5 Vdc, 12.5 mA	0 - 3.125 Vdc, 3mA
S22P	S22P015S05 S22P015S05P S22P015S05M2	15 A, 600 Vrms		0 - 3.125 Vdc, 7.5mA
	S22P025S05 S22P025S05P S22P025S05M2	25 A, 600 Vrms		0 - 3.125 Vdc, 12.5mA
S23P	S23P50/100D15	100 A, 600 Vrms	MAX. ± 15 Vdc, ± 62.5 mA	-2.5 - 2.5 Vdc; -50 - 50mA
	S23P50/100D15M1	100 A, 600 Vrms	MAX. ± 15 Vdc, ± 112.5 mA	-5 - 5 Vdc; -100 - 100mA
	S23P50/100D15M2	100 A, 600 Vrms	MAX. ± 15 Vdc, ± 62.5 mA	-2.5 - 2.5 Vdc; -50 - 50mA
S25P	S25P050D15X	50 A, 600 Vrms	MAX. ± 15 Vdc, ± 62.5 mA	-5 - 5 Vdc; -50 - 50mA
	S25P100D15X	100 A, 600 Vrms	MAX. ± 15 Vdc, ± 112.5 mA	-5 - 5 Vdc; -100 - 100mA
	S25P100D15Y	100 A, 600 Vrms	MAX. ± 15 Vdc, ± 62.5 mA	-5 - 5 Vdc; -50 - 50mA
	S25P150D15Y	150 A, 600 Vrms	MAX. ± 15 Vdc, ± 87.5 mA	-3.75 - 3.75 Vdc; -75 - 75mA
S26P	S26P200D15Y	200 A, 600 Vrms	MAX. ± 15 Vdc, ± 112.5 mA	-5 - 5 Vdc; -100 - 100mA
S27S	S27S300D15Y S27S300D15YM	300 A, 600 Vrms	± 15 Vdc, ± 162.5 mA	0 - ± 7.5 Vdc, ± 150mA
S28S	S28S500D24Z S28S500D24ZM S28S500D24ZJ	500 A, 600 Vrms	± 24 Vdc, ± 130 mA	0 - ± 5 Vdc, ± 100mA
S29S	S29S1T0D24Z S29S1T0D24ZM S29S1T0D24ZJ	1000 A, 600 Vrms	± 24 Vdc, ± 235 mA	0 - ± 10 Vdc, ± 200mA
S30S	S30S2T0D24Z S30S2T0D24ZM S30S2T0D24ZJ	2000 A, 600 Vrms	24 Vdc, 45 mA; -24 Vdc, -45 mA	0 - ± 10 Vdc, ± 400mA
S42S	S42S1T0D24Z S42S1T0D24ZM S42S1T0D24ZJ	1000 A, 600 Vrms	± 24 Vdc, ± 245 mA	± 10 Vdc, ± 200mA

Note

For models LA16P, LA17P and LA37S, see note on page 1 and 2.

According to UL508 standard and CSA C22.2 No.14 standard

Conditions of Acceptability

- When installed in the end-use equipment, consideration shall be given to the following:

Common terms

- 1 The devices have been evaluated for use in pollution degree 2 environment only.
- 2 A suitable enclosure shall be provided in the end-use application
- 3 The terminals have not been evaluated for field wiring.
- 4 The devices are not intended to be used with any wire as the feed-through coil wound onto the Case.
- 5 The secondary sensing circuit shall be powered by an Isolated Secondary Circuit such as Limited Voltage/Current circuit or Limiting Impedance circuit.
- 6 The required clearance and creepage distance between primary conductor and the secondary circuits shall be maintained in the end-use application.
- 7 The housing of the female connector provided by the end-product shall be evaluated as a barrier under the end-application Standard in the end-use application, in case the clearance and/or the creepage distance do not meet the requirements of the end-application Standard.

Please refer to the next section for other items. If you have any question, please contact distributor or sales office.

CAUTION

The descriptions are directed from UL and CSA..

Series	Model	CAUTION / Notice (or CoA)
F01P	F01P *** S05	- / Notice: The maximum temperature at top of case shall not be higher than 110° C and busbar shall not be higher than 108° C in the end-use product.
F02P	F02P *** S05	
F03P	F03P *** S05	
F23P	F23P *** S05R	- / Notice: The devices have been evaluated with the provision of the two copper conductor-cum-heat sink as the primary conductor, measured 100 by 85 mm, 0.5 mm thick.
F26P	F26P *** S05 F26P *** S05A F26P *** S05B	- / Notice: All devices except for Model F26P100S05B have been evaluated with the bus bar (20.5 mm x 11 mm (225.5 mm ²) x 170 mm long) under the temperature test. Based on this effect, the temperature of the bus bar was kept at 94.9 ° C
L07P	L07P *** D15 L07P *** D15S L07P *** S05	- / -

Note

For models F01P, F02P and F03P, see note on page 1.

According to UL508 standard and CSA C22.2 No.14 standard

CAUTION

The descriptions are directed from UL and CSA..

Series	Model	CAUTION / Notice (or CoA)
L18P	L18P *** D15 L18P *** D15C L18P *** D15-OP L18P *** D15AH L18P *** S05 L18P *** S05R L18P *** S12 SL18P *** D15 L18P *** D15AHV L18P *** D15L	- / -
L31S	L31S *** S05S L31S *** S05FS	- / Notice: Do not wrap the primary conductor around the core part of the product for preventing to reduce the required Spacings.
L32P	L32P *** S05FS L32P *** S05BFS L32P *** S05BFSK	- / Notice: Do not wrap the primary conductor around the core part of the product for preventing to reduce the required Spacings. The maximum temperature at case should not exceed 150°C by the case's insulation performance.
L34S	L34S *** D15 L34S *** D15C L34S *** D15T L34S *** D15TC	CAUTION: Do not wrap the primary conductor around the core part of the product for preventing to reduce the required Spacings. / For models with suffix T in Temperature Rating designation detailed in NOMENCLATURE for models in L34S series and L34SC series, the maximum temperature of the bus bar (primary conductor) shall not exceed 135°C at the end-use application.
L37S	L37S *** D15J L37S *** D15M L37S *** D15LJ L37S *** D15LM L37S *** D15P L37S *** D15EY L37S *** D15EJ L37S *** D15EM L37S *** S05J L37S *** S05M	- / Notice: The housing of the female connector provided by the end-product shall be evaluated as a barrier under the end-application Standard in the end-use application, in case the clearance and/or the creepage distance do not meet the requirements of the end-application Standard. The maximum temperature of busbar shall not be higher than 102.3° C respectively at the end-use application.
L40S	L40S *** D15J L40S *** D15M L40S *** D15CJ L40S *** D15CM	- / -
L51S	L51S *** D15J L51S *** D15M L51S *** D15LJ L51S *** D15LM L51S *** D15CJ L51S *** D15CM	- / The primary bus bar or conductor shall not exceed 120° C in the end use application.
L52S	L52S *** D15	- / The primary bus bar or conductor shall not exceed 120° C in the end use application. The connector shall not exceed 105° C in the end use application. The devices have been evaluated on the assumption that the device is used in a primary circuit that a MLV would be controlled at 6 kV in a surge protective device.
L55S	L55S *** D15	- / The primary bus bar or conductor shall not exceed 120° C in the end use application. The connector shall not exceed 105° C in the end use application.

Note

For models L37S, L37P, L51S, L52S and L55S see note on page 1 and 2.

According to UL508 standard and CSA C22.2 No.14 standard

CAUTION

The descriptions are directed from UL and CSA..

Series	Model	CAUTION / Notice (or CoA)
LA02P	LA02P *** S03	- / -
LA03P	LA03P *** S05	- / -
LA16P	LA16P *** S03 LA16P *** S05	- / The maximum temperature of busbar shall not be higher than 129.4° C in the end-use product.
LA17P	LA17P *** S05	- / The temperature of the primary terminal shall not exceed 120° C in the end-use application.
LA37S	LA37S *** S05 LA37S *** S05K	- / The maximum temperature of the primary conductor bus-bar equal to or lower than 120 ° C at the end-use application.
S21S	S21S180D15JN	CAUTION: Do not wrap the primary conductor around the core part of the product to increase measured current. / -
S22P	S22P *** S05 S22P *** S05P S22P *** S05M2	- / -
S23P	S23P50/100D15 S23P50/100D15M1 S23P50/100D15M2	CAUTION: Provide two min. 100 by 85 mm, 0.5mm thick copper conductor-cum- heat sink as primary conductor of each side for safe usage. / Notice : The primary conductor temperature and PCB should not exceed 100°C by the temperature regulations of internal parts.
S25P	S25P *** D15 *	CAUTION: Do not wrap the primary conductor around the core part of the product to increase measured current. / -
S26P	S26P200D15Y	CAUTION: Do not wrap the primary conductor around the core part of the product to increase measured current. / -
S27S	S27S300D15Y S27S300D15YM	- / Notice: Do not wrap the primary conductor around the core part of the product for preventing to reduce the required Spacings.
S28S	S28S500D24Z S28S500D24ZM S28S500D24ZJ	- / Notice: Do not wrap the primary conductor around the core part of the product for preventing to reduce the required Spacings. The maximum temperature at case should not exceed 140°C by the case's insulation performance.
S29S	S29S1T0D24Z S29S1T0D24ZM S29S1T0D24ZJ	- / Notice: Do not wrap the primary conductor around the core part of the product for preventing to reduce the required Spacings. The primary conductor temperature should not exceed 95°C by the temperature regulations of internal parts.
S30S	S30S2T0D24Z S30S2T0D24ZM S30S2T0D24ZJ	- / Notice: These devices have been evaluated with the bus bar cooled by Liquid CPU cooler, Type ELC-LMR240-BS manufactured by Enermax Technology Corporation. Based on this effect, the temperature of the bus bar was kept at 116.0°C. Other than this usage, an additional evaluation shall be considered and conducted in the end-use application.
S42S	S42S1T0D24Z S42S1T0D24ZM S42S1T0D24ZJ	- / Notice: These devices have been evaluated with the copper bus bar (Size ; ϕ 44mm, L350mm) under the temperature test. Based on this effect, the temperature of the bus bar was kept at 138.5°C. Other than this usage, an additional evaluation shall be considered and conducted in the end-use application.
Z05P	Z05P *** S05 Z05P *** S05P	- / -

Note

For models LA16P, LA17P and LA37S, see note on page 1 and 2.