

- Single phase and DC input
- Short circuit, overload, input and output overvoltage protections
- Over temperature protection
- Alarm contact
- High overload capability to ensure the protections selectivity and start-up of heavy loads

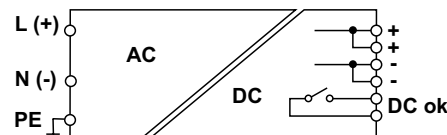
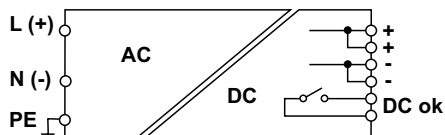


NOTE

[1] Standard version (product after September 2019)

[2] With protective coating that allow installation in environment with extreme conditions (product on demand)

Please refer to the datasheet for more details



CODE TYPE	CSL1-480W/024V/AA [1]	CSL1-480W/024V/GA [2]
INPUT TECHNICAL DATA		
Input rated voltage	120-230 Vac	120-230 Vac
Input voltage AC	85...264 Vac	85...264 Vac
Input voltage DC	100...370 Vdc (derating $U_{in} < 130$ Vdc)	100...370 Vdc (derating $U_{in} < 130$ Vdc)
Frequency	47...63 Hz	47...63 Hz
Current consumption	4.9 A (120 Vac) / 2.4 A (230 Vac)	4.9 A (120 Vac) / 2.4 A (230 Vac)
Inrush peak current	36 A	36 A
Power factor	> 0.99	> 0.99
Internal protection fuse	Yes 8 A	Yes 8 A
External protection on AC line	MCB: C-6 A / Fuse: T-6.3 A	MCB: C-6 A / Fuse: T-6.3 A
OUTPUT TECHNICAL DATA		
Output rated voltage	24 Vdc $\pm 1\%$	24 Vdc $\pm 1\%$
Output adjustable range	20 ... 28 Vdc	20 ... 28 Vdc
Continuous current	20 A at 50°C	20 A at 50°C
Overload limiting	22.5 A (max. 25 A constant current)	22.5 A (max. 25 A constant current)
Short circuit peak current	35A 300 ms On / 800 ms Off (HICCUP mode)	35A 300 ms On / 800 ms Off (HICCUP mode)
Ripple @ nominal ratings	45 mVpp	45 mVpp
Hold up time	18 ms (120 Vac) / 18 ms (230 Vac)	18 ms (120 Vac) / 18 ms (230 Vac)
Status indication	LED "DC OK", LED "Stand-by"	LED "DC OK", LED "Stand-by"
Alarm contact	dry contact, max. 1A @ 24 Vdc ($U_{out} > 21.6$ Vdc)	dry contact, max. 1A @ 24 Vdc ($U_{out} > 21.6$ Vdc)
Parallel connection	possible	possible
Redundant parallel connection	possible with external ORing diode	possible with external ORing diode
GENERAL TECHNICAL DATA		
Efficiency	90.7 %	90.7 %
Dissipated power	53 W	53 W
Operating temperature range	-20...+70°C (derating -14 W/°C >50°C)	-20...+70°C (derating -14 W/°C >50°C)
Input / output isolation	3 kVac / 60 s (SELV output)	3 kVac / 60 s (SELV output)
Input / ground isolation	1.5 kVac / 60 s	1.5 kVac / 60 s
Output / ground isolation	0.5 kVac / 60 s	0.5 kVac / 60 s
Standard / approvals	EN 60950-1	EN 60950-1
EMC Standards	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4
Overvoltage category / Pollution degree	II / 2	II / 2
Protection degree	IP 20	IP 20
Connection terminal IN/OUT	4 mm ² / 4 mm ²	4 mm ² / 4 mm ²
Housing material	aluminium	aluminium
Dimension	80x170x127 mm	80x170x127 mm
Approximate weight	1.5 kg	1.5 kg
Mounting information	vertical on a rail, 20 mm from adjacent components	vertical on a rail, 20 mm from adjacent components
APPROVALS	CE UL PENDING	CE UL PENDING
ACCESSORIES		
Mounting rail (IEC60715/TH35-7.5)	PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB	PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB
Mounting rail (IEC60715/TH35-15)	—	—
Marking tag	—	—