

**NMTR7.E198865****Power Circuit and Motor-mounted Apparatus Certified for Canada**

Page Bottom

**Power Circuit and Motor-mounted Apparatus Certified for Canada**See General Information for Power Circuit and Motor-mounted Apparatus Certified for Canada**PULS GMBH**

E198865

Elektrastrasse 6  
81925 Muenchen, GERMANY

**Buffer units, open type** Model(s) OPB020.1, SLV20.200, SLV20.X0X

UB10.KKX-XX (KK=input voltage, 22.5V thru 30V)

UB20.241-XX (If "XX" is blank the dash is omitted)

UBC10.KKX-XX (KK=input voltage, 22.5V thru 30V)

UC10.24Z-WX where Z can be 1 or 2, W can be blank or any number or C or S, X can be blank or any number

UF20.241, UF20.481

UF40.241-XX, where XX can be any character or number or blank, not safety relevant.

**DC/DC converters, open type** Model(s) CD5.121-X\*, CD5.241\*, CD5.241-L1-X\*, CD5.241-L2-X\*, CD5.241-S1-X\*, CD5.242-X\*, CD5.243-X\*, SLAD4.100-X\***Industrial control equipment, miscellaneous apparatus, power supplies** Model(s) QT40.999-70, QT40.999-72, PCS417.171, PCS417.381, PCS417.771**Industrial control equipment, protection and power distribution modules, built-in DC/DC (DIN-Rail), open type** Model(s) PISA10.203206, PISA10.206210, PISA10.401, PISA10.402, PISA10.403, PISA10.404, PISA10.406, PISA10.410, PISA11.203206, PISA11.206212, PISA11.401, PISA11.402, PISA11.403, PISA11.404, PISA11.406, PISA11.410, PISA11.CLASS2**Industrial control equipment, switching power supplies, open type** Model(s) OPS104.0, CS3.241-80

CS5.KKX-XX (b), CS5.241-80, CS5.315-80, CS5.316-80

DN1022, ML100.272-YY, ML100.xxx or alternatively AN328.xxx.xx, ML95.xxx, QS20.249-70 and QS20.249-72, QT40.24X-XX\*, QT40.36X-XX\*, QT40.48X-XX\*, SD831, CS3.KKX-XX (b), SD832

**Open Type, Industrial Control Equipment, switch mode power supply (DIN-Rail)** Model(s) CS20.241-80, CPS20.241-80, CS20.KKZ-WX, CPS20.KKZ-WX (!)

PIC120.241C-xx, PIC120.242C-xx, PIC120.241D-xx (k)

PIC240.241C-xx, PIC240.241D-xx, where xx can be any character or number or blank, not safety relevant.

**Rechargeable battery module, open type** Model(s) UZK24.071, UZO24.071, UZK24.121, UZO24.121**Redundancy modules, open type** Model(s) MLR02, MLR02.1XX, MLR02.5XX, MLY02, MLY02.1XX, MLY02.5XX, MLY10.241, SLR01, SLR01.5XX, SLR02, SLR02.5XX, SS832, YR2.DIODE-XX\*, YR40.241-XX\*, YR40.242-XX\*, YR40.245-XX\*, YR40.482-XX\*, YR80.241-XX\*, YR80.242-XX\*, YRM2.DIODE-XX\***Sensor board for battery modules, open type** Model(s) UZS24.100**Switching power supplies, open type** Model(s) 2500P/1A3, 5000P/1A3, AC-1206, AC-1207, AC-1208, AC-1209, AC-1212, AC1213 (1-Phase), AC1216, AC1218, AC1224, AD-281, AN-277, AN-280, AN-283, AN-306, AN-322.XXX.XX, AN-327.XXX.XX, AN-328.XXX.XX, AP486.50X, CP10.121, CP10.241, CP10.241-S1, CP10.242, CP10.361, CP10.481, CP10.KKZ-WX (h)

CS10.KKX-XX\* (KK=output voltage, 24 thru 28, 48 thru 52), CS10.241-80, CS10.311-80, CS10.315-80

CT10.24X-XX\*, CT10.48X-XX\*, CT10.241-80, CT10.311-80, CT10.315-80

CT5.KKX-XX (e), CT5.KKX-80 (f), DN1020, DN1021, DN2011, DN2012, DN2013, DN2014, DN2032, DN2033, DN2034, DN2035, DN2036, DN2114, DN2134, DPA144.XXX, DPA148.XXX, DPA154.XXX, DPA247.XXX, DPA248.XXX, DPS305.1, ML100.2XX-YY, ML100.6XX-YY

ML15.10K-XX\* (K=output voltage, can be 0 (24-28V), 1 (5-5.5V) or 2 (12V))

ML15.KKX-XX\* (K=output voltage), ML30.KK1-XX (b1), ML30.XXX, ML50.XXX, ML60.241-70, ML60.KK1-XX (i), ML60.KK2-XX (i), ML70.500, ML70.XXX, ML90.2XX-YY, ML90.6XX-YY, OPS105.2, OPS110.1, OPS110.2, OPS120.1, OPS305.1, OPS310.1, OPS320.1, OPS340.1, PS102, PU101, QS10.DNET

QS10.XXY-ZZ, where XX represents the output voltage and can be 12 to 15 or 24 to 28 or 28 to 32 or 48 to 56, Y can be 1 to 4 or 6 to 9 for versions with 150 V DC input, for version with 300Vdc input Y is 5 or 1-D1, followed by -ZZ can be any alphanumeric character (not relied on)

safety) and QS10.DNET. Models may have suffix -C1 or -A1 which use coatings but not safety relevant.

QS20.249-JJ, QS20.KK1-XX, QS20.KK4-XX, QS20.KK5-XX, QS20.KK6-XX, QS3.241, QS40.244-XX\*, QS40.484-XX\*, QS40.KKZ-WX, QS5.241-WX (d), QS5.DNET, QT20.241-73

QT20.KKX-XX\* (KK=output voltage, 24 thru 28, 36 thru 42 or 48 thru 55)

QTD20.241-XX\*, RPS120 EEC or RPS120 EEC (CC) (d), RPS80 EEC, RPSXXX (RPS30), SL10.100, SL10.305, SL10.3XX, SL10.500, SL10.501, SL10.502, SL10.503, SL10.506, SL10.507, SL10.524, SL10.6XX, SL10.XXX, SL2.100, SL2.500, SL2.501, SL2.502, SL2.506, SL2.508, SL2.XXX, SL20.100, SL20.300, SL20.301, SL20.31X, SL20.501, SL20.502, SL20.503, SL20.506, SL20.600, SL20.601, SL20.602, SL20.606, SL20.61X, SL20.AXX, SL20.BXX, SL20.CXX, SL3.50X, SL30.300, SL30.301, SL30.500, SL30.506, SL30.507, SL30.512, SL30.AXX, SL30.BXX, SL4.YXX (a), SL40.300, SL40.XXX, SL5.YXX (a), SL5.ZXX (a), SLA3.10X, SLA4.1XX, SLA4.5XX, SLA5.XXX (1-Phase) (a), SLA8.1XX, SLA8.5XX, SLR.XXX, SLR10.100, SLR10.XXX, SLR2.XXX, SLR5.100, SLR5.XXX (1-Phase) (a), SVG-SEC-48-6, XT40.KK1-XX, XT40.KK2-XX

#### Investigated to CSA-C22.2 No. 107.1

**Industrial control equipment, miscellaneous apparatus, power supplies** Model(s) QT40.481-77; QT40.KKX-XX where: KK = Output voltage, 2 digit number 24 or 36 or 48; -XX = optional, X can be any character or number except -77, not safety relevant

**Open Type, Industrial Control Equipment, switch mode power supply (DIN-Rail)** Model(s) PIC480.241C-XX, where XX can be any character or number or blank, not safety relevant

**Redundancy modules, open type** Model(s) PIRD20.241-XX\*, YR2.1201-XX\*, YR20.242-XX\*, YR20.246-XX\*

**Switching power supplies, open type** Model(s) CP20.241; CP20.241-S1; CP20.241-V1; CP20.241-V1-71; CP20.241-R1; CP20.241-R2; CP20.241-R3; CP20.241-R2-72

CP20.KKZ-WX-YY, where KK can be 12 up to 24 and denotes the rated output voltage; Z can be 1 and denotes version with 150 Vdc input; W and X can be any number, character or blank and defines product variants, which are covered in this report or additional product variants with minor, not safety relevant, deviations; YY can be any number, character or blank and defines product variants, which are covered in this report or additional product variants with minor, not safety relevant, deviations

(!) - KK represents the output voltage and may be 12 up to 15, 24 up to 28, 36 up to 42 and 48 up to 56 Vdc; For DC-supplied models KK may be 24 up to 28 and 48 up to 56 Vdc. Z may be 1; WX is optional, W can be blank or any number or 'C' or 'A' or 'S' or 'D'; "D" marks DC supplied models; X can be blank or any number and defines product variants, which are covered in this report or additional product variants with minor, not safety relevant difference.

(a) - X-stands for customer-specific versions, can be any character or number. not safety relevant. Y-stands for 1, 2, 4, 5 and single-phase versions and Z-stands for 3, 6, 7, 8 and three-phase versions.

(b) - Where KK=output voltage, is a two digit number from 24 thru 28; and X is optional, can be any character or number or blank, not safety relevant. Suffix -XX is optional and can be any character or number except for -80

(b1) - Where KK=output voltage, is a two digit number from 24 through 28; Suffix -XX is optional and can be any character or number.

(d) - W can be blank or any number or C or A, X can be blank or any number; not safety relevant. WX = "A1", WX = "C1" and RPS120 EEC (CC) represents a unit with conformal coated printed circuit boards. If W and X is blank the "-" is omitted

(e) - KK represents the output voltage and can be 30.5, 24-28 or 12-15 V, X can be any character or number, not safety relevant. Suffix -XX is optional and can be any character or number except for -80

(f) - KK represents the output voltage and can be 30.5, 24-28 or 12-15 V, X can be any character or number, not safety relevant.

(h) - Where KK represents rated output voltage and can be 12, 24, 36 or 48; Z can be 1 or 2; WX is optional, W and X can be blank or any number or 'C' or 'A' or 'S' (not safety relevant), X can be blank or any number and defines additional product variants with minor, not safety relevant difference

(i) - Where KK=output voltage, is a two digit number from 12 through 15 and from 24 through 28; Suffix -XX is optional and can be any character or number except for -70

(k) - Where suffix '-XX' is optional and can be any letter or digit and is not safety relevant

\* - X indicates a non safety relevant feature of the product and can be any alpha numerical character or be blank. Suffix -XX is optional and can be any character or number except for -80.

JJ - can be any character or number except 70 and 72, not safety relevant

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