QQFU2.E213214
Power Supplies, General Purpose - Component

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Guide Information

BLOCK TRANSFORMATOREN E213214
ELEKTRONIK GMBH & CO KG VERDEN
MAX-PLANCK-STRASSE 36-46
27283 VERDEN, GERMANY

Model No.	Rated Input		SC	Output			OC	SP	EP	FC	GC
	V	Hz		Max V	Max A	Max VA					
PCT230/24-1.3(a)	100-240	50-60	0	24.3	2.2	55.7	3	1012	15B	5	1
PSR230/24-1.3(a)	100-240	50-60	0	24.3	2.2	55.7	3	1012	15B	5	1
PSR230/24-2.5(a)	100-240	50-60	0	24	7.8	64.2	3	1012	15B	5	1
PSR230/24-5(a)	100-240	50-60	0	24.1	8.6	120	3	1012	15B	5	1
B0006135,	180-240	50-60	0	24.1	8.6	120	3	1012	15B	5	1
PSR 230/24-5/12-9 (a)				13.6	16.9	144	3				
B9402088@	400	50/60	0	38	4	152	0	1012	—	0	0

(a)Complementary Recognized to QQGQ2 and QQHM2.

Marking: Company name "BLOCK" or file No. "E213214", and/or trademarks, 

or 

or 

and model designation.

QQFU2.GuideInfo
Power Supplies, General Purpose - Component

[Power Supplies - Component] Power Supplies, General Purpose - Component

Guide Information

The devices covered under this category are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. THE FINAL ACCEPTANCE OF THE COMPONENT IS DEPENDENT UPON ITS INSTALLATION AND USE IN COMPLETE EQUIPMENT SUBMITTED TO UNDERWRITERS LABORATORIES INC.

Component power supplies under this category with no specific use indicated are intended for use in/with products found in typical household, commercial and industrial environments.

This category also covers Recognized Component power supplies which are rebuilt by the original manufacturer or another party having the necessary facilities, technical knowledge and manufacturing skills. Rebuilt power supplies are rebuilt to the extent necessary by disassembly and reassembly using new or reconditioned parts. Rebuilt power supplies are subject to the same requirements as new products.

The basic standard used to investigate products in this category is UL1012, (Fifth Edition) "Power Units Other Than Class 2" .

Component power supplies under this category with a specific use indicated are being transferred to the appropriate category indicated under Power Supplies Guide QQAQ2. During the transition, component power supplies may appear under any of these categories. Consult QQBK2, QQDZ2, QQGQ2, QQHM2, QQHX2, QQIJ2 and QQJE2 for additional information.

Component telephone power supplies covered under this category have been investigated to the telephone power supply requirements present in UL1012, (Fourth Edition) "Power Supplies" . Component telephone power supplies investigated to UL1459, "Telephone Equipment" are indicated under Guide QQJE2 in this Directory.

Other specific use component power supplies under this category have been investigated to the requirements applicable to the intended end-use product.

Codes - The following summarizes and defines codes shown in the individual recognitions in addition to those indicated under Power Supplies Guide QQAQ2.

Supply category (SC) - Code identifies the type of supply to which the component is intended to be connected.

SC Categories	Code
Branch circuit power	0
NEC Class 2	1

Isolated secondary circuit	4
Limited energy isolated	5
secondary circuit	

Centralized DC	6

Output category (OC) - Each output is identified to indicate the type of output.

OC Categories	Code
NEC Class 1	0
NEC Class 2	1
Isolated secondary circuit	4

Products Recognized under the Component Program are identified by significant markings consisting of the manufacturer's identification and catalog, model or other product designation which correspond with the marking specified in UL's published records. Rebuilt products are additionally marked "Rebuilt" , "Remanufactured" , or "Reconditioned" preceding the product designation. Only those components which actually carry the "Marking" shown in the individual Recognition should be considered as being covered under the Component Program.

The Listing or Classification Mark of Underwriters Laboratories Inc. is not authorized for use on, or in connection with, Recognized Components.

For additional information, see Power Supplies Guide QQAQ2.

QQAQ2.GuideInfo
Power Supplies - Component

Power Supplies - Component

These recognitions cover the following products:

Power Supplies for use in Electronic Data Processing Equipment

Power Supplies for use in Electrostatic Air Cleaning Equipment

Gas Tube Sign Power Supplies

General Purpose Power Supplies

Power Supplies for use in Information Technology Equipment, Including

Electrical Business Equipment

Power Supplies for use in Medical and Dental Equipment

Power Supplies for use in Office Appliances and Business Equipment

Specialty Power Supplies

Telephone Power Supplies

The devices covered under this category are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. THE FINAL ACCEPTANCE OF THE COMPONENT IS DEPENDENT UPON ITS INSTALLATION AND USE IN COMPLETE EQUIPMENT SUBMITTED TO UNDERWRITERS LABORATORIES INC.

Power supplies evaluated in accordance with IEC publications are indicated in this directory under Power Supplies Evaluated in Accordance with IEC Publications, Guide QQKV2.

These categories do not include power supplies intended as components of fire protection or burglary protective signaling systems.

Unless specified otherwise in the individual recognitions, consideration is to be given to the following conditions of acceptability when these components are employed in end-use products. Absence of ratings and condition of acceptability codes from an individual recognition indicates this information is contained in the UL Recognition report for the product.

1) Codes - The following summarizes and defines codes shown in the individual recognitions. If not applicable, a "-" (dash) is indicated in the individual recognition. Unique conditions of acceptability are indicated in individual recognitions.

Supply category (SC) - Code identifies the type of supply to which the component is intended to be connected. Refer to guides of individual categories below for SC codes.

Maximum Voltage (Max V) - The maximum output voltage under any resistive loading condition is indicated in volts peak.

Maximum Amps (Max A) - The maximum output current under any resistive loading condition is indicated in amps rms.

Maximum Volt - Amps (Max VA) - The maximum output volt-amperes under any resistive loading condition is indicated in volt-amperes rms.

Output category (OC) - Each output is identified to indicate the type of output. Refer to guides of individual categories below for OC codes. Convenience receptacles connected to the supply circuit are not considered outputs, however, these are to be loaded to determine the overall heating effect in the application.

Spacings (SP) - The standard used in judging spacings (or creepage and clearance distances) is indicated by the Standard No.

External protection (EP) - Tests on the component were conducted with the primary protected by external overcurrent protection.

EP Categories	**Code**
Specified current rating, branch protection	@B
Specified current rating, time delay fuse	@T
Specified current rating, not branch protection	@
Note: (@) - Indicates current rating of protection in amps.	

Field Connections (FC) - Code indicates whether supply and output connections have been investigated for field connections.

FC Categories	Code
Supply & output not investigated for FC	0
Supply not investigated for FC	1
Output not investigated for FC	2
Supply suitable for FC (+)	3
Output suitable for FC (+)	4
Supply & output suitable for FC (+)	5
Supply suitable for FC (++)	6
Output suitable for FC (++)	7
Supply & output suitable for FC (++)	8
(+) - Employs pressure wire terminals or terminal block suitable	
for field wiring.	
(++) - Employs a connector, or a cord terminating in a connector.	

Grounding Connection (GC) - Units with functional grounding connections (no safety grounding connection) shall

have dead metal parts bonded to the end product grounding means.

GC Categories	Code
Only functional grounding provided	0
Provided with safety grounding connection	1
Double insulated product	2

2) A test shall be conducted to determine whether a hazard is present when connected to an incorrect supply source if the user has access to voltage selection means employed in multiple rated supply voltage units.

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