KEY TO THE CATALOG NUMBERING SYSTEM

PROTECTOR RELAYS

252	PSGU	PQ	BX	C6	EA	T1	IA	TD

SERIES

252
253
256

TYPE

PVUU 1ph undervoltage
PVOU 1ph overvoltage
PVBU 1ph under / over
PVKU 3/3 undervoltage
PVAU 3/3 overvoltage
PVMU 3/3 under / over
PVVU 3/4 undervoltage
PVPU 3/4 overvoltage
PVEU 3/4 under / over
PAUU 1ph undercurrent
PAOU 1ph overcurrent
PADU 1ph under / over
PAVU 3/3-4 undercurrent
PAPU 3/3-4 overcurrent
PHUU underfrequency
PHOU overfrequency
PHDU under / over
PASU 1ph,3/4 reverse pwr.
PATU 3/3 reverse power
PLLU 1ph 3/4 sync. Relay
PLDU sync. Relay dead bus
PH3U speed sensing
PBAU transd. Low trip
PBBU transd. High trip
PBVU low / high trip
PBTU mV high trip
PBSU mV low trip
PTOU therm. High trip
PTUU therm. Low trip
PRA/B/C RTD hot spot 3
PCCU RTD hot spot 6
PVRU phase seque / loss
PSFU phase loss / unbal
PSGU ph loss/unbal/underv
PMMU thermistor trip

INPUT

PA - 69V
PO - 115V
PQ - 120V
PZ - 150V
RL - 200V
RM - 208V
RR - 240V
R6 - 277V
RU - 380V
SB - 415V
SE - 480V
LA - 1A
LC - 1.5A
LE - 2A
LJ - 3A
LS - 5A
MJ - 8A
MT - 10A
FA - 1mA
HG - 4/20mA
MS - 10VDC
EC - 50mV
ET - 75mV
GB - 100mV
TJ - Type J t/c
TK - Type K t/c
R1 - 10Ω Cu
R2 - 100Ω Pt
R3 - 120Ω Ni

OUTPUT

Relay output
volt-free contacts

FREQUENCY

C4 - 400HZ
C5 - 50HZ
C6 - 60HZ
C7 - 50/60HZ
C8 - 45/65HZ
CC - 60/61HZ

RELAY STATE

EA - Energize on trip
EB - De-energize on trip
EC - 2 relays - over/energize,
under/de-energize on trip

Protector relays in the default configuration will energize on over-trip and de-energize on under-trip. Therefore, loss of power to the unit will cause the under-trip relay to 'fail-safe' to an alarm state.

Terminal diagrams shown on each relay top label reflect the contact position BEFORE POWER IS APPLIED TO THE UNIT.

TIME DELAY OR AUXILIARY SUPPLY

T5 - 5 seconds
T1 - 10 seconds
T2 - 20 seconds
T3 - 30 seconds
TT - ? seconds
AE - 110V 50HZ
AL - 220V 50HZ
AN - 240V 50HZ
AU - 380V 50HZ
BC - 12VDC
BD - 24VDC
NR - 48VDC
PM - 110VDC
Z1 - 135VDC
DC - 69V 60HZ
DG - 120V 60HZ
DK - 208V 60HZ
DM - 230V 60HZ
DP - 277V 60HZ
DS - 346V 60HZ
DU - 380V 60HZ
DW - 415V 60HZ
DY - 480V 60HZ

DIFFERENTIAL

D1 - 1%
D5 - 5%
D10 - 10%
D0 - ?%
IA -15% u/volt.
IB - ?% u/volt.

OPTIONS

BT - Tropicalized
CT - Calibration temp
SP - Fixed set point
TD - Fixed time delay

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