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CONTROL POWER TRANSFORMER

TRANSFORMER
△ : DENOTES DELTA CONNECTION
: DENOTES WYE CONNECTION WITH RESISTANCE GROUND
: DENOTES WYE CONNECTION WITH SOLID GROUND

STORED ENERGY CIRCUIT BREAKER DRAWOUT TYPE COMPLETE WITH INTEGRAL SOLID STATE 50/51, 50/51G OVERCURRENT PROTECTION

(X)
FUSED POTENTIAL TRANSFORMER(S)
X: DENOTES QUANTITY

600-120V
(2)
POTENTIAL TRANSFORMER CURRENT RATIO: 600-5A QUANTITY: 2

(X)
Y:5
CURRENT XMR
X: QUANTITY (IF SHOWN)
Y: RATIO (IF SHOWN)
IF NOT INDICATED, PROVIDE QUANTITY & RATIO TO SUIT PHASING, COORDINATION STUDY REQUIREMENTS AND EQUIPMENT

ZERO SEQUENCE CURRENT XMR

CURRENT TRANSFORMER

600-5A
(3)
CURRENT TRANSFORMER
CURRENT RATIO: 600-5A
QUANTITY: 3

AUTOTRANSFORMER WITH TAPS

△ 3 PHASE, 3 WIRE, DELTA CONNECTION

Y 3 PHASE, 3 WIRE, WYE CONNECTION UNGROUNDED

Y 3 PHASE, 4 WIRE WYE CONNECTION SOLID GROUNDED NEUTRAL

Y 3 PHASE, 3 WIRE WYE CONNECTION RESISTANCE GROUNDED NEUTRAL

LINE REACTOR

REACTOR

X
SS, FRP, XPY
HEAVY DUTY SAFETY SWITCH, NON FUSED, 600V, 3P
X: DENOTES AMPACITY
RATING AS FOLLOWS:
A=30A, B=60A, C=100A, D=200A
ALL DISCONNECTS TO INCLUDE A LATE MAKE, EARLY BREAK AUXILIARY 120V, 2A STATUS CONTACT
SS: DENOTES NEMA 4X STAINLESS STEEL ENCLOSURE
FRP: DENOTES NEMA 4X FIBERGLASS REINFORCED POLYESTER
XP: DENOTES EXPLOSION PROOF
Y=1 CLASS 1, DIVISION 1 RATED
Y=2 CLASS 1, DIVISION 2 RATED

DIGITAL MTR
DIGITAL/HYDRO METERING

DM
DIGITAL POWER METER COMPLETE WITH INTEGRAL ETHERNET COMMUNICATIONS ROCKWELL MODEL POWER MONITOR 5000.

AVR
AUTOMATIC VOLTAGE REGULATOR

DI
AI
DUAL AMMETER, THERMAL DEMAND & INSTANTANEOUS

LS
SC
LOAD SHARING & SPEED CONTROL

KWT
KILOWATT TRANSDUCER, BITRONICS MODEL POWERPLEX RTH C/W MODBUS PLUS COMMUNICATIONS

KW
KILOWATT METER

F
FREQUENCY METER

PF
POWER FACTOR METER

SSPR
SOLID STATE PROTECTION RELAY

MFRX
MULTI FUNCTION RELAY
"X" = MODEL TYPE
X=1: GE MULTILIN SR850 FEEDER MANAGEMENT RELAY
X=2: GE MULTILIN SR889 FEEDER MANAGEMENT RELAY
X=3: GE MULTILIN SR350 FEEDER MANAGEMENT RELAY
X=4: GE MULTILIN SR369 MOTOR PROTECTION RELAY WITH REMOTE RRTD MODULE
X=5: GE MULTILIN REMOTE RTD MODULE RRTD VIA MULTIMODE FIBER OPTIC CABLE

PGCX
POWER GENERATION CONTROLLER
X=1: GENERATOR 1

MEC
MICROPROCESSOR ENGINE CONTROLLER

AFD
ELECTRONIC ARC FLASH DETECTION DEVICE

BUS DUCT

52
A
POWER CIRCUIT BREAKER:
A - CONTINUOUS CURRENT RATING
MVA
MVA - INTERRUPTING RATEING

HYDRO POLE

POLE MOUNTED WEATHERHEAD

XX
CABLE SCHEDULE TAG

SPD
SURGE PROTECTION DEVICE

FC
TRANSFORMER ONAF FAN CONTROLS ENCLOSURE RATED NEMA 4X NON METALLIC

VARIABLE POTENTIOMETER

ELECTRICAL UNIT HEATER

K1
MECHANICAL KEY INTERLOCK "K1" DENOTES SEQUENCE K1

K
KEY INTERLOCK

KX
KIRK KEY INTERLOCK
X: PER APPLICATION DESCRIPTION

E
ELECTRICAL INTERLOCK

S
3Ø SELECTOR SWITCH

HARMONIC LINE FILTER FOR VFD APPLICATIONS.

VFD
SOLID STATE MOTOR CONTROLLER
VFD - VARIABLE FREQUENCY DRIVE

VFD
VFD MOTOR STARTER, NEMA RATED TO SUIT MOTOR HP.

SOLID STATE SOFT STARTER C/W BYPASS CONTACTOR.

S/S
SOFT STARTER (SLD)

WIRING TERMINATION DESIGNATIONS
IN PLC PANEL
AT FIELD DEVICE
IN CONTROL PANEL/LOCAL CONTROL STATION
IN VSD
IN MCC
1

SINGLE LINE & ELEMENTARY CONTROL DIAGRAMS
TERMINAL BLOCK TO PLC
HVAC TERMINAL
TERMINAL BLOCK TO FIELD
TERMINAL BLOCK INSIDE MCC OR CONTROL PANEL

STARTERS

100A
R
F
SIZE 2
COMBINATION MAGNETIC STARTER FULL VOLTAGE, REVERSING DRAW OUT, BREAKER TYPE EM SIZE 1

NON FUSED INTERRUPTER SWITCH

FUSED INTERRUPTER LOAD BREAK SWITCH

LOAD INTERRUPTER SWITCH

FUSED LOAD INTERRUTER SWITCH

ELECTRICAL CONDUCTORS

GROUNDING ROD DETAIL

GROUNDING WELL

CHASSIS GROUND

NEUTRAL GROUNDING RESISTOR (NGR)

ISOLATED GROUND CONNECTION

X
BUS
BUS CONTINUATION SYMBOL
X: DENOTES BUS/CONDUCTOR CONTINUATION IDENTIFIER TAG. MATCHING TAG'S INDICATE POINTS OF CONTINUATION

THREE PHASE FOUR WIRE GENERATOR NEUTRAL DRAWOUT

LOCAL EQUIPMENT CONTROL BOX

POTHEAD OR TERMINATOR

STRESS CONE
28KV STRESS CONE COLD SHRINK - 3m TYPE

PLUG

RESOURCE DRAWING

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Mark	Date	Description
H	2025-08-31	Peel Region - Final Review Edition
G	2025-07-17	ANSI/ISA 5.1 - 2024 Edition
F	2025-06-27	Final Adjustments to Elements
E	2025-02-24	End of April Edition
D	2025-04-10	Updated Edition
C	2025-03-10	Updated Edition

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Title :
Peel Region CADD Standard
Electrical SLD Symbol Legends

Non-Standard Symbols

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ANSI C	000-E-6002	H
Scale : N / A		Sheet : 07 of : 07