CUSTOMER CONNECTIONS

75 HP AND BELOW : USE MINIMUM 60°C COPPER WIRE

ABOVE 75 HP : USE MINIMUM 75°C COPPER WIRE

480V.
60 HZ.
LINE

FUSED DISCONNECT
OR CIRCUIT BREAKER
(CUSTOMER SUPPLIED)

L1
L2
L3

T1
T2
T3
LOAD

GRD

FACTORY POWER CONNECTIONS

Location of Distribution block (When Used)

CAP1

CAPACITOR BLEEDER RESISTORS

CAP(s)

Location of Distribution block (When Used)

CAP2

CAPACITOR BLEEDER RESISTORS

CAP(s)

LR

FUSE

CNT

TR

Black
Red
Blue
Yellow
Brown
Orange
Gray
Purple
White

A1
A2
AT
B1
B2
BT
C1
C2
CT

Fu1a
Fu2a
Fu3a

TS1
TS2

Line Inductor overtemp switch. (Option)

Tuned Inductor overtemp switch. (Option)

J24
J23
J21
J22

CONTROL CONNECTIONS

Transformer Connection With Fan

XFMR LEADS GO TO TAP ON LINE REACTOR (AT)&(BT)

XFMR. 480V.

L1
L2
Fu4
Fu5
H1
H2
H3
H4
X2
120 V.
X1
GRD.

Location of Secondary (Fu6), when used.

PQ Board (NO)
PQ Board (COM)
TB1
TB2
TB3
TB4
TB5
CNT CONTACTOR COIL
A1
A2
FAN(S)
GRD.

PQ Board (Power Supply)

PQ Board (Power Supply)

PQ Board (Power Supply)

J20
J12

Black
White

X2
CNT A1
CNT A2
White
Black

1 2 3 4 5 6 7 8
TB

Fan
Fan
XFMR X1

TERMINAL BLOCK ON PANEL

J1
A1 B1 C1
J3
AT BT CT
J7
J8
J22
J12
A2 B2 C2
J11
J10
COM
NO
Red
Gray
J20

Yellow
Orange
Brown

Standard Communication Port

Optional Communication Port

Board Ground

Transformer Connection Without Fan

XFMR LEADS GO TO TAP ON LINE REACTOR (AT)&(BT)

Location of Secondary (Fu6) when used.

L1
L2
Fu4
Fu5
XFMR. 480V.
H1
H2
H3
H4
X2
120 V.
X1
GRD.

PQ Board (NO)
PQ Board (COM)
TB1
TB2
TB3
TB4
TB5
CNT CONTACTOR COIL
A1
A2

PQ Board (Power Supply)

PQ Board (Power Supply)

PQ Board (Power Supply)

J20
J12

Black
White

X2
CNT A1
CNT A2
White
Black

1 2 3 4 5 6 7 8
TB

XFMR X1

J20
To COM of PQconnect Board
To NO. of PQconnect Board

TERMINAL BLOCK ON PANEL

Material(s) Shall be RoHS Compliant

B	7203	Fixed J22 and J23 Labeling	9/05/25	TJS	
A		As Designed	03/21/24	JRN	
NO	ECO	REVISION	DATE	BY	

DIMENSIONS IN INCHES (EXCEPT AS NOTED)
TOLERANCES (EXCEPT AS NOTED)
DECIMAL .XX ±.01 .XXX±.005
FRACTIONAL ± 1/32
ANGULAR ± 1/2°

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DRAWN BY: JRN
DATE: 3/21/24
SCALE: NA
DWG. NO. 30586-PQ7
SHT. 1 OF 1

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HarmonicGuard Low Capacitance 480V Contactor/PQconnect, 2 Cap Banks