MAIN POWER SWITCHBOARD
MACHINERY CONTROL RM

4160 V · 3PH · 60 HZ

24 V DC POWER SUPPLY FROM SWITCHBOARD CONTROL BATTERY SYSTEM (SEE DWG Nº 32-0800-25) — P-MSB-DC

TO SHIP SERV. SWITCHBOARD (INTERLOCKS) (SEE DWG Nº 32-0800-03) — P-SSB-C20, P-SSB-C21

SWBD CONTROL POWER SUPPLY FROM SHIP SERVICE SWITCHBOARD (7) (SEE DWG Nº 32-0800-03) — P-MSB-BC (7)

ANTI-COND. HEATER PWR SUPPLY FROM PNL 'P-102' (SEE DWG Nº 32-0800-20) — P-102-8, P-102-9

TO ALARM SYSTEM (GND FAULT, BKR TRIPPED, DC 24V FAIL) — EA-LU7/29, EA-LU5/1,3,5,6,7,8,9,10,11,12,16

(2) ANTI-COND. HEATER POWER SUPPLY FROM POWER PANEL 'P-206' (SEE DWG Nº 32-0800-18) — P-206-1

MAIN GENERATOR PORT
[10% O/L RATING FOR 2 HOURS] (4)

5000 KW 4160V/3PH 60HZ 0.8 PF — 5XC — P-206-1 (2)

P-04001 5×3c#300MCM (121A) (1) (FLC=827A) (FLC×1.1=954A)

P-04001-C 2TWSCPE #16

P-04001-V 3c#14

(7) LOCAL VOLTMETER PANEL (ADJACENT TO ENG. LOCAL CONT. STATION) (2)

(2) ANTI-COND. HEATER POWER SUPPLY FROM POWER PANEL 'P-206' (SEE DWG Nº 32-0800-18) — P-206-2

5000 KW 4160V/3PH 60HZ 0.8 PF — 5XC — P-206-2-1 (2)

P-04002 5×3c#300MCM (121A) (1) (FLC=827A) (FLC×1.1=954A)

P-04002-C 2TWSCPE #16

MAIN GENERATOR CENTRE
[10% O/L RATING FOR 2 HOURS] (4)

P-04002-V 3c#14

(7) LOCAL VOLTMETER PANEL (ADJACENT TO ENG. LOCAL CONT. STATION) (2)

(2) ANTI-COND. HEATER POWER SUPPLY FROM POWER PANEL 'P-206' (SEE DWG Nº 32-0800-18) — P-206-3

5000 KW 4160V/3PH 60HZ 0.8 PF — 5XC — P-206-3-1 (2)

P-04003 5×3c#300MCM (121A) (1) (FLC=827A) (FLC×1.1=954A)

P-04003-C 2TWSCPE #16

MAIN GENERATOR STBD
[10% O/L RATING FOR 2 HOURS] (4)

P-04003-V 3c#14

(7) LOCAL VOLTMETER PANEL (ADJACENT TO ENG. LOCAL CONT. STATION)

(4) RELAY CONTROL CABINET (ENG. CONT. RM)

RELAY CABINET

P-MSB-C20 4TWSCPR#16
P-MSB-C21 4TWSCPR#16
P-MSB-C22 6c#14
P-MSB-C23 6c#14

FROM CYCLO-CONVERTER (PROX. KEMP SECONDARY CTS) — PP-117, PP-317

TO ENGINE RM CONSOLE (REMOTE CONTROLS & INDICATIONS)

P-MSB-C1 (4) 12c#14
P-MSB-C2 20c#14
P-MSB-C3 (4) 12c#14
P-MSB-C4 20c#14 (4)
P-MSB-C6 (1) 20c#14 (4)
P-MSB-C7 (4) 12c#14
P-MSB-C8 (1) 20c#14 (4)
P-MSB-C9 (4) 12c#14
P-MSB-C10 (1) 20c#14

E.O 1200AF

P-4001 3c#1/0 (197A) (FLC=77A) (FLC×1.25=99A) — STARTER — P-4001-M 3c#1/0 — 450 KW — PORT AIR BUBBLER (4)

FOR CONTROLS, SEE DWG Nº 34-0821-02

E.O 1200AF

P-4003 (5) 3c#300MCM (243A) (FLC=192A) (FLC×1.25=78A) — C 150A (2)

450 KVA 3PH 4160/575 V

P-0503 5×3c#2/0 (729A) (FLC=452A) (FLC×1.25=565A) — PORT VITAL MOTOR CONTROL CENTRE (SEE DWG Nº 32-0800-05)

(2) 4160/1200 V, 3PH 4270 KVA (PRI.) 3×1675 KVA (SEC.)

P-112-3 — A.C HTR PWR SUPPLY FROM PNL 'P 112' (SEE DWG. Nº 32-0800-27)

P-112-1 & 2 — VENT. FANS PWR SUPPLY FROM PNL 'P-112' (SEE DWG Nº 32-0800-27)

T1

E.O. 1200AF

(2) PP-4001-1 4×3c#300MCM (974A) (FLC=593A) (FLC×1.25=741A) (2)

PP-1101-1 6×1c#600MCM (1078A) (1) (FLC=806A, FLC×1.25=1008A)
PP-1101-2 6×1c#600MCM (1078A) (1) (FLC=806A, FLC×1.25=1008A)
PP-1101-3 6×1c#600MCM (1078A) (1) (FLC=806A, FLC×1.25=1008A)

(10% O/L FOR 2 HRS)

T2

E.O. 1200AF

(2) PP-4001-2 4×3c#300MCM (974A) (FLC=593A) (FLC×1.25=741A) (2)

PP-1101-4 6×1c#600MCM (1078A) (1) (FLC=806A, FLC×1.25=1008A)
PP-1101-5 6×1c#600MCM (1078A) (1) (FLC=806A, FLC×1.25=1008A)
PP-1101-6 6×1c#600MCM (1078A) (1) (FLC=806A, FLC×1.25=1008A)

(2) 4160/1200 V, 3PH 4270 KVA (PRI.) 3×1675 KVA (SEC) (10% O/L FOR 2 HRS)

P-112-6 — (1) A.C. HTR. PWR. SUPPLY FROM PWR. PANEL 'P-112' (SEE DWG Nº 32-0800-27)

P-112-4 & 5 — VENT FANS PWR SUPPLY FROM PNL 'P-112' (SEE DWG Nº 32-0800-27)

PORT CYCLOCONVERTER

TO AC HTR CONTACTOR PNL (SEE DWG. Nº 32-0800-15) — P-53-9 — PWR

PP-1901 10×3c#300MCM (2679A) (1) (FLC=1875A, FLC×1.1=2063A)

6000 KW 1900V-3PH 14.5/18 HZ 1.0 PF — EXC

PORT PROPULSION MOTOR (10% O/L RATING FOR 2 HRS.) (4)

PP-506 3c#8 (40A) (2)

E.O 1200AF

P-4004 3c#300MCM (243A) (FLC=56A) (FLC×1.25=70A)

400 KVA, 3PH 4160V/575V

SOAR — PP-503 3×3c#4/0 (587A) (FLC=402A) (FLC×1.25=503A) (1) (2)

PP-503 3×3c#4/0

PORT EXCITATION AND CONTROL CABINET

PP-503-EXC 2×3c#4/0 (391A) (1) (2)

P-306-7-1 — A.C. HTR PWR SUPPLY FROM PNL 'P-306' (2) (SEE DWG. 32-0800-18)

PP-505B 3×3c#4/0 (587A) (1)

PP-505C 3c#4 (71A) (2)

PP-505D 2×3c#4/0 (391A) (2)

BOLTED LINKS

E.O 1200AF

P-4005 (6) 3c#300MCM (243A) (FLC=167A) (FLC×1.25=209A) — C 300A (2)

1200 KVA 3PH 4160/575V

P-0505 5×3c#250MCM (1737A) (FLC=1205A) (FLC×1.25=1507A) (1) — BUS TIE FEEDER TO SHIP SERVICE SWITCHBOARD (SEE DWG Nº 32-0800-02)

BOLTED LINKS

SPARE EXCITATION AND CONTROL CABINET (1)

STARBOARD EXCITATION AND CONTROL CABINET

P-306-7-2 — A.C HTR PWR SUPPLY FROM PNL 'P-306' (2) (SEE DWG Nº 32-0800-18)

PP-504-EXC 2×3c#4/0 (391A) (1) (2)

E.O 1200AF

P-4006 3c#300MCM (243A) (FLC=56A) (FLC×1.25=70A)

400 KVA, 3PH 4160V/575V

SOAR — PP-504 3×3c#4/0 (587A) (FLC=402A) (FLC×1.25=503A) (1) (2)

PP-504 3×3c#4/0

VENT FANS PWR SUPPLY FROM PNL 'P-112' (SEE DWG Nº 32-0800-27) — P-112-10&11

(1) A.C. HTR. PWR. SUPPLY FROM PWR PANEL 'P-112' (SEE DWG Nº 32-0800-27) — P-112-12

4160V/1200V, 3PH 4270 KVA (PRI.), 3×1675 KVA (SEC.)

T4

E.O 1200AF

(2) PP-4002-2 4×3c#300MCM (974A) (FLC=593A) (FLC×1.25=741A) (2)

PP-1102-1 6×1c#600MCM (1078A) (1) (FLC=806A, FLC×1.25=1008A)
PP-1102-2 6×1c#600MCM (1078A) (1) (FLC=806A, FLC×1.25=1008A)
PP-1102-3 6×1c#600MCM (1078A) (1) (FLC=806A, FLC×1.25=1008A)

(10% O/L FOR 2 HRS)

T3

E.O 1200AF

(2) PP-4002-1 4×3c#300MCM (974A) (FLC=593A) (FLC×1.25=741A) (2)

PP-1102-4 6×1c#600MCM (1078A) (1) (FLC=806A, FLC×1.25=1008A)
PP-1102-5 6×1c#600MCM (1078A) (1) (FLC=806A, FLC×1.25=1008A)
PP-1102-6 6×1c#600MCM (1078A) (1) (FLC=806A, FLC×1.25=1008A)

(2) 4160/1200 V, 3PH 4270 KVA (PRI.), 3×1675 KVA (SEC) (10% O/L FOR 2 HRS)

P-112-7&8 — VENT PWR SUPPLY FROM PNL 'P-112' (SEE DWG Nº 32-0800-27)

P-112-9 — (1) A.C HTR PWR SUPPLY FROM POWER PANEL 'P-112' (SEE DWG Nº 32-0800-27)

STARBOARD CYCLOCONVERTER

PP-507 3c#8 (40A) (2)

TO AC HTR CONTACTOR PNL (SEE DWG. Nº 32-0800-15) — P-53-5 — PWR

PP-1902 10×3c#300MCM (2679A) (1) (FLC=1875A, FLC×1.1=2063A)

8000 KW 1900V-3PH 14.5/18 HZ 1.0 PF — EXC

STARBOARD PROPULSION MOTOR (10% O/L RATING FOR 2 HRS.) (4)

P-306-6 — A.C. HTR PWR SUPPLY FROM PNL 'P-306' (2) (SEE DWG. 32-0800-18)

E.O 1200AF

P-4002 3c#1/0 (127A) (FLC=89A) (FLC×1.25=91A) — STARTER — P-4002-M 3c#1/0 — 450 KW — STBD AIR BUBBLER (4)

FOR CONTROLS, SEE DWG Nº 34-0821-02

450 KVA 3PH 4160/575V

P-0504 5×3c#2/0 (729A) (FLC=452A) (FLC×1.25=565A) — STARBOARD VITAL MOTOR CONTROL CENTRE (SEE DWG Nº 32-0800-06)

AS FITTED

CCGS HENRY LARSEN
CHIEF ENGINEER'S COPY

Burrard Yarrows Corporation — SHIPBUILDERS, SHIP REPAIRERS, GENERAL ENGINEERS
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TITLE: MAIN POWER SWITCHBOARD ONE LINE DIAGRAM

APPROVALS		REPRESENT.	DATE
	LLOYDS	G.S.H	MAY-23-85
	CCG	B. JOHNSON	JUNE-11-85
	CCG-SSB	F. LORENZ	JUNE-18-85

DRAWN S. DESA / T.V.
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APPROVED
SCALE NONE | DATE MAY-17-85
DWG. No. 32-0800-02 | REV. 7

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