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BASIC TRANSFER SWITCH

AUTOMATIC TRANSFER SWITCH INTERFACE & CONTROL

BTS
NORMAL SUPPLY (RED)

MOTOR OPERATOR
MP2 BLACK
MP1 RED
E G/Y
ON RED
OFF RED
AXa1 RED
AXb1 RED
AXc1 10 RED
AXa2 RED
AXb2 RED
AXc2 20 RED
ALa1 RED
ALb1 RED
ALc1 7 RED

MOTOR OPERATOR
E G/Y
MP1 RED
MP2 BLACK
ON BLUE
OFF BLUE
AXa1 BLUE
AXb1 BLUE
AXc1 10 BLUE
AXa2 BLUE
AXb2 BLUE
AXc2 20 BLUE
ALa1 BLUE
ALb1 BLUE
ALc1 7 BLUE

GENERATOR SUPPLY (BLUE)

NORMAL PLUGS (ORANGE)
1 3
2 4
3 11
4 12
5 13
6 14
7 15
8 16
9 27
10 18
11 27
12

1 18
2 19
3 20
4
5 22
6 23
7
8
9 27
10 27
11 13
12 21

EMERGENCY PLUGS (GREY)

ATL610NHP CONTROLLER MODULE CM

DIGITAL INPUTS 15 16 17 18 19 20 21

OUT4 OPEN 25
CLOSE 27
NORMAL
OUT5

OUT6 OPEN 28
CLOSE 30
GENERATOR
OUT7

OUT1 9
OUT3 GENERATOR START/STOP 22 23 24
OUT2 11 12

AC SUPPLY 14 13
DC SUPPLY 31 32
LINE 1 VOLT INPUTS 1 2 3 4
LINE 2 VOLT INPUTS 5 6 7 8

CPSR
14 13
52 51
24 23
62 61
CPSR A1 A2

14 3 N
13 4 A1
31 + 26 11
32 – 17 12

1 5
2 6
3 7
4 1 N1
5 8
6 9
7 10
8 2 N2

9 10
22 25 10
23 24 9

6/20A F1 L1
F2 L2
F3 L3
N1
FROM MAINS SUPPLY

6/20A F4 L1
F5 L2
F6 L3
N2
FROM GENERATOR SUPPLY

GENERATOR START/STOP

BASIC TRANS. SW. (MALE) — AUTOMATIC TRANS. SW. LOGIC CONTROL (FEMALE)

WIRE No.s	ORANGE PLUG	GREY PLUG
1	3	18
2	4	19
3	11	20
4	12	NA
5	13	22
6	14	23
7	15	NA
8	16	NA
9	27	27
10	18	27
11	27	13
12	NA	21

PLUG DETAIL

LEGEND

ATS	AUTO TRANSFER SWITCH
CM	CONTROLLER MODULE
CPSR	CONTROL POWER SUPPLY RELAY
F1-6	MAINS & GEN. SUPPLY FUSES
16 ⌀	TERMINAL No.16
– – – –	FIELD WIRING BY CUSTOMER
———	WIRING BY N.H.P.

NOTES

CONTROL CIRCUIT CABLING

415VAC SIZE; 0.75mm C/W
BOOT END PINS
COLOURS; RED, WHITE & BLUE – PHASES
BLACK – NEUTRAL

240VAC SIZE; 0.75mm C/W
BOOT END PINS
COLOURS; RED – ACTIVE
BLACK – NEUTRAL

24VDC SIZE; 1.5mm C/W
BOOT END PINS
COLOURS; ORANGE – POSITIVE
PURPLE – NEGATIVE

VOLT FREE SIZE; 0.75mm C/W
BOOT END PINS
COLOUR; PINK

REDUCED PRINT DO NOT SCALE DRAWING

METRIC

APPROVALS:

PRODUCT CATEGORY: TERASAKI

PART No:

REFERENCE	DESCRIPTION
MD-L007192-001	GENERAL ASSEMBLY

CUSTOMER	SUPPLIER	BRANCH	DERIVED FROM	RELATED DWG	ORDER N°

FINISH:

TOLERANCE UNLESS OTHERWISE SPECIFIED
LIN:± ANG:±0.5°

MATERIAL:

PROJECT:

NO.	REVISION	DATE	DRAWN	CHECKED	APPROVED
6					
5					
4					
3	CONTROLLER OUT4 & 5; OUT6 & 7 contacts were shown linked	10/10/16	LeeB		MT
2	Connection to Emergency Plug pin 3 revised	29/09/16	LeeB		MT
1	Drawing modified from MD-S007192-001-02	23/08/16	LeeB	RJ	MT

TITLE: T2 ATS 1250A/1600A TRANSFER SWITCH

SERIAL No.

SCALE NONE | A3 | OFFICE ENGINEERING

NHP
A.C.N. 004 304 812
www.nhp.com.au
ELECTRICAL ENGINEERING PRODUCTS PTY LTD
INDUSTRIAL SWITCHGEAR AND AUTOMATION SOLUTION SPECIALISTS
43 - 67 RIVER ST. RICHMOND VICTORIA 3121
TELEPHONE +61 3 9429 2999
FAX. +61 3 9429 1075
EMAIL mel-sales@nhp.com.au

DRAWN	LeeB	23/08/16	DRAWING No. MD-S007789 REV 03
CHECKED	R.J.	23/08/16	
APPROVED	M.T.	23/08/16	SHT No. 001