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BASIC TRANSFER SWITCH

AUTOMATIC TRANSFER SWITCH INTERFACE & CONTROL

NORMAL SUPPLY ACB

VOLT METER ,AGR31 ONLY

R S T N

MAIN CIRCUIT

13 23 04 14 01 05 22 02 03 10 111 211 311 411

S1 CT1

OVER-CURRENT RELEASE

(TYPE AGR-21B/31B OCR)

DCR ALARM LATCH RELEASE SHUNT TRIP

RY LRC SHT

M

MHT

E

19 29 21 15 20 114 112 214 212 314 312 414 412

4TH CT

EMERGENCY SUPPLY ACB

VOLT METER ,AGR31 ONLY

R S T N

MAIN CIRCUIT

13 23 04 14 01 05 22 02 03 10 111 211 311 411

S1 CT1

OVER-CURRENT RELEASE

(TYPE AGR-21B/31B OCR)

DCR ALARM LATCH RELEASE SHUNT TRIP

RY LRC SHT

M

MHT

E

19 29 21 15 20 114 112 214 212 314 312 414 412

4TH CT

NORMAL PLUGS (ORANGE)

1 2 3 4 5 6 7 8 9 10 11 12

3 11 12 13 14 15 16 27 18 27

15 16 17 18 19 20 21 25 26 27

EMERGENCY PLUGS (GREY)

1 2 3 4 5 6 7 8 9 10 11 12

2 19 3 20 5 22 6 23 9 27 10 27 12 21

28 29 30

CPSR

14 13 52 51 24 23 62 61

A1 A2

ATL610NHP CONTROLLER MODULE CM

DIGITAL INPUTS 15 16 17 18 19 20 21

AC SUPPLY 14 13

DC SUPPLY 31 32

OUT4 25 OPEN 26 CLOSE 27 OUT5 NORMAL

OUT6 28 OPEN 29 CLOSE 30 OUT7 GENERATOR

OUT1 OUT3 GENERATOR START/STOP OUT2

LINE 1 VOLT INPUTS 1 2 3 4

LINE 2 VOLT INPUTS 5 6 7

9 10 22 23 24 11 12

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 23 24 11 12

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

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

START/STOP GENERATOR

IMPORTANT:
ATL610NHP TRIP INPUTS MUST BE NORMALLY OPEN
– SET INPUT INP3 TO NO
– SET INPUT INP4 TO NO

BASIC TRANS. SW. (MALE) 1 2 3 4 5 6 7 8 9 10 11 12

AUTOMATIC TRANS. SW. LOGIC CONTROL (FEMALE) 1 2 3 4 5 6 7 8 9 10 11 12

WIRE No.s	ORANGE PLUG	GREY PLUG
3		18
4		19
11		20
12		NA
13		22
14		23
15		NA
16		NA
27		27
18		27
27		13
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; 0.75mm 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: ATL610NHP

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: MT

PROJECT: TERASAKI (ACB) TRANSFER SWITCH

TITLE: TEMLOGIC CONTROLLER (ATL610NHP AUTO. ACB. INTERFACE) SCHEM. DIAGRAM

SERIAL No.

NO.	REVISION	DATE	DRAWN	CHECKED	APPROVED
6					
5					
4					
3					
2	CONTROLLER OUT4 & 5; OUT6 & 7 contacts were shown linked	10/10/16	LeeB		MT
1	ADDED "IMPORTANT" NOTE FOR TRIP INPUT SETTING	26/02/16	MGT	AE	NT

SCALE NONE | A3 | OFFICE ENGINEERING

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DRAWN	MGT	22/02/16	DRAWING No. MD-L007195 REV 2
CHECKED	S.N.	22/02/16	
APPROVED	R.J.	22/02/16	SHT No. 001