DIMENSIONS IN MILLIMETRES | DO NOT SCALE | REMOVE ALL BURRS AND SHARP EDGES | TOLERANCES ON MACHINING DIMENSIONS (UNLESS OTHERWISE NOTED) 0 TO 500 ± 0.5 , 500 TO 1000 ±1

FILENAME : 33211.dwg
PLOT VIEWS : ALL BUT 0

BR1 — BRAKE RELAY

COIL LOCATION	N.C.	J1-J2	K1-K2	L1-L2	M1-M2				
VE10	LOC.	VIIE7	VIIC2	VIID4	VIIE6				
PART No. 8361774	N.O.	A1-A2	B1-B2	C1-C2	D1-D2	E1-E2	F1-F2	G1-G2	H1-H2
	LOC.	VA10	VA10	VIIC4	VIIB12	VIIB1	VID3	IB2	VIIB1

BR2 — BRAKE RELAY

COIL LOCATION	N.C.	J1-J2	K1-K2	L1-L2	M1-M2				
VE9	LOC.	VB7	IIIC4		VID3				
PART No. 8361774	N.O.	A1-A2	B1-B2	C1-C2	D1-D2	E1-E2	F1-F2	G1-G2	H1-H2
	LOC.	VB7	VID3	VIIE13	IIIC4	IB5	VIIC13	VIID1	VIID2

BRA — BRAKE RELAY AUXILIARY

COIL LOCATION	N.C.	C1-C2	F1-F2						
VE10	LOC.	VIIC3							
PART No. 8357416	N.O.	A1-A2	B1-B2	D1-D2	E1-E2				
	LOC.	IB7	IB5	IB6					

CDR — CONTACTOR DELAY RELAY

COIL LOCATION	N.C.	1C-1NC	2C-2NC	3C-3NC					
VIE3	LOC.								
PART No. 8357415	N.O.	1C-1NO	2C-2NO	3C-3NO					
	LOC.	VID3	VIB4	VIB4					

COR — CUT-OUT RELAY

COIL LOCATION	N.C.	C1-C2	E1-E2	F1-F2					
VIE12	LOC.	VIIC3	VID3	VIIC3					
PART No. 8361775	N.O.	A1-A2	B1-B2	D1-D2					
	LOC.	VD7	VIIB14	VIIC8					

DGX — DYNAMIC GRID EXCITATION RELAY

COIL LOCATION	N.C.	1C-1NC	2C-2NC	3C-3NC					
VIIE16	LOC.	VC3							
PART No. 8357415	N.O.	1C-1NO	2C-2NO	3C-3NO					
	LOC.		VID3	VD7					

DP1 — DYNAMIC BRAKE PILOT RELAY

COIL LOCATION	N.C.	1C-1NC	2C-2NC	3C-3NC					
VIIE10	LOC.			VIIA10					
PART No. 8357415	N.O.	1C-1NO	2C-2NO	3C-3NO					
	LOC.	VIID10	VID7	VIIA10					

DP1A — DYNAMIC BRAKE PILOT AUXILIARY RELAY

COIL LOCATION	N.C.	1C-1NC	2C-2NC						
VIIE9	LOC.								
PART No. 8363168	N.O.	1C-1NO	2C-2NO						
	LOC.	VIIC1	VIID2						

DP2 — DYNAMIC BRAKE PILOT RELAY

COIL LOCATION	N.C.	1C-1NC	2C-2NC	3C-3NC					
VIIE10	LOC.			VIIA10					
PART No. 8357415	N.O.	1C-1NO	2C-2NO	3C-3NO					
	LOC.	VIID10	VID8	VIIA10					

DP3 — DYNAMIC BRAKE PILOT RELAY

COIL LOCATION	N.C.	1C-1NC	2C-2NC	3C-3NC					
VIIE11	LOC.			VIIA11					
PART No. 8357415	N.O.	1C-1NO	2C-2NO	3C-3NO					
	LOC.	VIID11	VID8	VIIA11					

EPTD — ENGINE PURGE TIME DELAY

COIL LOCATION	N.C.								
IIIE14	LOC.								
PART No. 8276597	N.O.	L-R							
	LOC.	VB12							

EQP — EQUIPMENT PROTECTION RELAY

COIL LOCATION	N.C.	C1-C2	E1-E2	F1-F2					
VIIE13	LOC.	VIID3	VE7						
PART No. 8361775	N.O.	A1-A2	B1-B2	D1-D2					
	LOC.	VE7							

ER — ENGINE RELAY

COIL LOCATION	N.C.	C1-C2	F1-F2						
VE2	LOC.		VC2						
PART No. 8357416	N.O.	A1-A2	B1-B2	D1-D2	E1-E2				
	LOC.	VD14	VD13	VD13	VC17				

FAR — FIRE ALARM RELAY

COIL LOCATION	N.C.								
VE4	LOC.								
PART No. 8424310	N.O.	A1-A2	B1-B2	C1-C2	D1-D2	E1-E2	F1-F2		
	LOC.	VIIB15	VB2	VA4	VB5	VA3			

FCX — FAN CONTACTOR AUXILIARY

COIL LOCATION	N.C.	1C-1NC	2C-2NC						
VE14	LOC.								
PART No. 8363168	N.O.	1C-1NO	2C-2NO						
	LOC.	VIB10							

FCY — FAN CONTACTOR AUXILIARY

COIL LOCATION	N.C.	1C-1NC	2C-2NC						
VE17	LOC.	VIB10							
PART No. 8363168	N.O.	1C-1NO	2C-2NO						
	LOC.								

FOR — FORWARD RELAY

COIL LOCATION	N.C.	G1-G2	H1-H2	J1-J2	K1-K2	L1-L2	M1-M2	
VE6	LOC.	VIB3	IIIC4	VD7				
PART No. 8357418	N.O.	A1-A2	B1-B2	C1-C2	D1-D2	E1-E2	F1-F2	
	LOC.	VIB3	IIIC4	VD16	VD7			

FPC — FUEL PUMP CONTACTOR

COIL LOCATION	N.C.	F1-F2							
VIE1	LOC.	VB12							
PART No. 8357417	N.O.	A1-A2	B1-B2	C1-C2	D1-D2	E1-E2			
	LOC.	VID1	IIIB3	VD13	VE2	VD12			

FPR — FUEL PUMP RELAY

COIL LOCATION	N.C.	1C-1NC	2C-2NC						
VE9	LOC.								
PART No. 8363168	N.O.	1C-1NO	2C-2NO						
	LOC.	VID1	IIIB3						

FSRA — FIELD SHUNT AUXILIARY RELAY

COIL LOCATION	N.C.	1C-1NC	2C-2NC	3C-3NC					
VIE7	LOC.	VC12							
PART No. 8357415	N.O.	1C-1NO	2C-2NO	3C-3NO					
	LOC.	VC12	VID6						

GFX — GENERATOR FIELD AUXILIARY RELAY

COIL LOCATION	N.C.	C1-C2	E1-E2	F1-F2					
VIE2	LOC.	VIIB12		VB11					
PART No. 8361775	N.O.	A1-A2	B1-B2	D1-D2					
	LOC.	VB17	VIIC2	VB10					

GR — GROUND RELAY

COIL LOCATION OPER. IC1 RESET VE15	N.C.	J-K	Q-R						
	LOC.	VID2	VD2						
PART No. 8361776	N.O.	A-B	C-D	E-F	G-H				
	LOC.	VIB6	VIIB14	VC15	VA5				

GSR — GOVERNOR SHUT DOWN RELAY

COIL LOCATION	N.C.	1C-1NC	2C-2NC						
VE4	LOC.								
PART No. 8363168	N.O.	1C-1NO	2C-2NO						
	LOC.	VIIB14							

GVL — GENERATOR VOLTAGE LIMITER RELAY

COIL LOCATION	N.C.	1C-1NC	2C-2NC	3C-2NC					
VE15	LOC.								
PART No. 8357415	N.O.	1C-1NO	2C-2NO	3C-2NO					
	LOC.	VD15	VIID5						

LUR — LEAD UNIT RELAY

COIL LOCATION	N.C.	C1-C2	F1-F2						
VE9	LOC.	VIIB2							
PART No. 8357416	N.O.	A1-A2	B1-B2	D1-D2	E1-E2				
	LOC.	VIIB3	VD9	VD6					

MB — MOTOR TRANSFER SWITCH

COIL LOCATION	N.C.	X-W	E-F	G-H	Q-R				
IIIE4	LOC.	IIID4	VIC3		VIC4				
PART No. 8453176	N.O.	A-B	C-D	N-P	Y-V				
	LOC.	VIC3	I-E2		IIID4				

MCOX — MOTOR CUT-OUT AUXILIARY RELAY

COIL LOCATION	N.C.	1C-1NC	2C-2NC						
VIE11	LOC.	IIIC4							
PART No. 8363168	N.O.	1C-1NO	2C-2NO						
	LOC.	IIIC4	VIC10						

MR — MOTORING RELAY

COIL LOCATION	N.C.	J1-J2	K1-K2	L1-L2	M1-M2				
VE7	LOC.	VD10	VIIE4	IB3	VIIC4				
PART No. 8361774	N.O.	A1-A2	B1-B2	C1-C2	D1-D2	E1-E2	F1-F2	G1-G2	H1-H2
	LOC.	VIIC2	VID3	VIIB12	VID2	VD12	VA12	VIIB2	VC13

NIR — NORMAL IDLE RELAY

COIL LOCATION	N.C.	1C-1NC	2C-2NC						
VE17	LOC.	VD13	VD14						
PART No. 8363168	N.O.	1C-1NO	2C-2NO						
	LOC.	VD13	VD14						

NVR — NO VOLT (A.C.) RELAY

COIL LOCATION IIC7	N.C.	A-B	C-D	E-F					
	LOC.	VB17	VIB1	VIE1					
PART No. 8421231	N.O.	G-H							
	LOC.	VD1							

OCP — OPEN CIRCUIT PROTECTOR

COIL LOCATION OPER. IB5 RESET VIIE12	N.C.	E-F	G-H						
	LOC.	VIE3	VIE3						
PART No. 8421610	N.O.	A-B	C-D						
	LOC.	VIIB14	VC3						

OSRA — OVER SPEED RELAY AUXILIARY

COIL LOCATION	N.C.	1C-1NC	2C-2NC	3C-3NC					
VIE7	LOC.		VIID13						
PART No. 8357415	N.O.	1C-1NO	2C-2NO	3C-3NO					
	LOC.	VC11							

PRR — POWER CONTROL RELAY

COIL LOCATION	N.C.	C1-C2	F1-F2						
VE9	LOC.	VIIB2							
PART No. 8357416	N.O.	A1-A2	B1-B2	D1-D2	E1-E2				
	LOC.	VC6							

RER — REVERSING RELAY

COIL LOCATION	N.C.	G1-G2	H1-H2	J1-J2	K1-K2	L1-L2	M1-M2	
VE6	LOC.	VIB3	IIID4	VD7				
PART No. 8357418	N.O.	A1-A2	B1-B2	C1-C2	D1-D2	E1-E2	F1-F2	
	LOC.	VIB3	IIID4	VD16	VD7			

RV — MOTOR TRANSFER SWITCH

COIL LOCATION	N.C.	A-B	C-D	N-P	Y-V				
IIIE4	LOC.	VIC3	VIB10	VD7	IIID4				
PART No. 8453176	N.O.	E-F	G-H	Q-R	X-W				
	LOC.	VIC3		VD7	IIID4				

RVF — TRANSFER SWITCH FORWARD RELAY

COIL LOCATION	N.C.	1C-1NC	2C-2NC						
VIE10	LOC.	IIID4							
PART No. 8363168	N.O.	1C-1NO	2C-2NO						
	LOC.	IIID4							

SPY — SERIES PARALLEL AUXILIARY RELAY

COIL LOCATION	N.C.	C1-C2	E1-E2	F1-F2					
VIE4	LOC.	VIE2		VD7					
PART No. 8361775	N.O.	A1-A2	B1-B2	D1-D2					
	LOC.	VIB3	VIC6						

STX — AUXILIARY STARTING RELAY

COIL LOCATION	N.C.	1C-1NC	2C-2NC	3C-2NC					
IIID12	LOC.								
PART No. 8407979	N.O.	1C-1NO	2C-2NO	3C-2NO					
	LOC.	IIID14	IIID14	VA12					

SWR — STEPS WALKWAY RELAY

COIL LOCATION IVC9	N.C.								
	LOC.								
PART No. SEE NOTE 2	N.O.	1-2	3-4	5-6					
	LOC.	IVC9	IVC10	IVC10					

TDS — SANDING TIME DELAY

COIL LOCATION	N.C.	A							
VE11	LOC.								
PART No. 8276598	N.O.	B							
	LOC.	VC16							

THL — THROTTLE LIMIT RELAY

COIL LOCATION	N.C.	1C-1NC	2C-2NC	3C-3NC					
VE3	LOC.								
PART No. 8357415	N.O.	1C-1NO	2C-2NO	3C-3NO					
	LOC.	VIC10	VC13	VIIC15					

THX — THROTTLE AUXILIARY RELAY

COIL LOCATION	N.C.	1C-1NC	2C-2NC						
VE15	LOC.								
PART No. 8363168	N.O.	1C-1NO	2C-2NO						
	LOC.	VB7	VC19						

TSR — TRANSFER SWITCH RELAY

COIL LOCATION	N.C.								
VIE2	LOC.								
PART No. 8424310	N.O.	A1-A2	B1-B2	C1-C2	D1-D2	E1-E2	F1-F2		
	LOC.	IIIB4	IIIB4				VIB10		

TSW — TIMER STEPS WALKWAY

COIL LOCATION	N.C.	15-16							
IVC9	LOC.	IVC9							
PART No. SEE NOTE 1	N.O.	15-18							
	LOC.	IVC9							

VCR — VIGILANCE CONTROL RELAY

COIL LOCATION	N.C.	C1-C2	F1-F2						
VE18	LOC.		VID3						
PART No. 8357416	N.O.	A1-A2	B1-B2	D1-D2	E1-E2				
	LOC.	VA12	VB18	VB21					

WL — WHEEL SLIP LIGHT RELAY

COIL LOCATION	N.C.	1C-1NC	2C-2NC						
VE11	LOC.		VD11						
PART No. 8363168	N.O.	1C-1NO	2C-2NO						
	LOC.	VB5							

WS16 — WHEEL SLIP RELAY

COIL LOCATION	N.C.	C-D	E-F						
IB5	LOC.	VIIE2	VIIE2						
PART No. 8419564	N.O.	A-B	G-H						
	LOC.	VB11	VB11						

WS25 — WHEEL SLIP RELAY

COIL LOCATION	N.C.	C-D	E-F						
IB6	LOC.	VIIE2	VIIE2						
PART No. 8419564	N.O.	A-B	G-H						
	LOC.	VB11	VB11						

WS34 — WHEEL SLIP RELAY

COIL LOCATION	N.C.	C-D	E-F						
IB7	LOC.	VIID2	VIID2						
PART No. 8419564	N.O.	A-B	G-H						
	LOC.	VB12	VB12						

EXAMPLE OF LOCATION DETAILS

VIE4 — SECTION No (ROMAN NUMERALS) | VERTICAL GRID | HORIZONTAL GRID

N.C. NORMALLY CLOSED
N.O. NORMALLY OPEN

NOTES:-

1. TSW TIMER STEPS WALKWAY IS SYRELEC TYPE BLRM. (FOR TIMER SETTING DETAILS REFER DWG A2-33209)
2. SWR STEPS WALKWAY RELAY IS NHP SPRECHER & SCHUH RELAY TYPE CA312C1074VDC.

MB SHOWN IN MOTOR POSITION
RV SHOWN IN FORWARD POSITION

NOTE:- FOR ORIGINAL DRAWING REFER Q.R. DWG No. DEW178

© QUEENSLAND RAILWAYS 305 EDWARD STREET BRISBANE Q. 4000
NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR COPIED IN ANY FORM OR BY ANY MEANS WITHOUT THE WRITTEN PERMISSION OF QUEENSLAND RAILWAYS.
DISCLAIMER. THIS DOCUMENT IS PRODUCED FOR QUEENSLAND RAILWAYS PURPOSES ONLY AND SHOULD NOT BE USED OR RELIED ON BY ANY PERSON OR CORPORATION. THIS DOCUMENT IS DISTRIBUTED ON THE BASIS THAT QUEENSLAND RAILWAYS EXPRESSLY DISCLAIMS ALL OR ANY LIABILITY AND RESPONSIBILITY TO ANY PERSON IN RESPECT OF ANYTHING DONE OR OMITTED TO BE DONE AND OF THE CONSEQUENCES OF ANYTHING DONE OR OMITTED TO BE DONE BY ANY PERSON IN RELIANCE UPON ANY PART OF THE CONTENTS OF THIS DOCUMENT.

ASSY. DRG. | USED ON | CORRESP. | CHKD. | INIT'LS | DATE | ALTERATION | REV.

ITEM	DESCRIPTION	ORDERING SIZE	QTY PER ASSY	SPECIFICATION

MRE W. THOMAS for GR

QUEENSLAND RAILWAYS
OFFICE OF THE MANAGER, ROLLINGSTOCK ENGINEERING

DIESEL LOCOS 2181-2214 (EXTENDED CAB) PHYSICAL CIRCUIT DIAGRAM-RELAY LOCATIONS & IDENTIFICATIONS GL26C-2 SECTION X SHEET 2

		REF.
SCALE	———	
DRAWN	A BOYD	
CHECKED	GR 19/11/98	A2-33211
APPROVED	IeR	
DATE	20-11-98	REV.