

Item	Description	obsolete date	last time repair date	repair by replacement	replacement product (@ Nov' 2016)
<b>Integrated Protection Relays</b>					
<b>IPA Relay Series</b>					
117085	Relay IPA4 V4.1 Integrated Protection	31/03/2007	31/12/2015	No	IPD or OCS system
117086	Relay IPA4 V5.1 Integrated Protection	31/03/2007	31/12/2015	No	
117045	Base IPA relay	31/03/2007	31/12/2015	No	
<b>IPB Relay Series</b>					
101570	Relay IPB6 V0.1a	9/09/2008	18/12/2015	No	IPD or OCS system
110453	RELAY IPB6 V0.2 PROT	19/12/2014	18/12/2015	No	
117542	Base IPB relay	19/12/2014	31/12/2015	No	
117441	Module IPA/B RDM	19/12/2014	31/12/2015	No	
117308	Keypad IKA IS	19/12/2014	31/12/2015	No	
<b>IPC Relay Series</b>					
110050	RELAY IPC1 INTEG PROT	18/12/2015	18/12/2020	No	IPD or OCS system
101182	BASE IPC INTEG PROT RLY	18/12/2015	18/12/2020	No	
101398	KEYPAD IKA IS TO SUIT IPC	18/12/2015	18/12/2020	No	
101500	MODULE IPC RDM C/W KEYPAD	18/12/2015	18/12/2020	No	
101501	Module IPSI IPA/B/C	19/12/2014	18/12/2020	No	
118670	KEYPAD IPC T/S IKA I/F C/W OVERLAY*	18/12/2015	18/12/2020	No	
119055	MODULE CCMC 415V CAB CONN	18/12/2015	18/12/2020	yes	
101490	MODULE CCMC 1kV CAB CONN	18/12/2015	18/12/2020	yes	
101491	MODULE CCMC 3.3KV CAB CONN	18/12/2015	18/12/2020	yes	
101492	MODULE CCMC 3.3KV VOLTAGE MON	18/12/2015	18/12/2020	yes	
<b>MP Series</b>					
119011	RELAY MPA M V0.1 thru V6.2 - all models	30/09/2014	18/12/2020	No	IPM2
120224	RELAY MPA3 I MOTOR PROT V0.1 thru V6.2 - all models	30/09/2014	18/12/2020	No	
<b>MM / ATF Mining Series</b>					
<b>PM2000 Relay Series</b>					
107753	Relay PM2000 Integrated Protection	30/07/2004	31/12/2015	No	IPD or OCS system
121207	CHASSIS PM2000 ASSEMBLED	30/07/2004	31/12/2015	No	
121206	BASE PM2000 ASSEMBLED	30/07/2004	31/12/2015	No	
101784	Transformer Power Supply 110V – (PM2000) N2801	30/07/2004	31/12/2015	No	
101785	Transformer Power Supply 240V – (PM2000) N2802	30/07/2004	31/12/2015	No	
101786	Transformer Power Supply 415V – (PM2000) N2806	30/07/2004	31/12/2015	No	
108297	Toroid Earth Leakage 45mm – (PM2000) N2831	30/07/2004	31/12/2015	No	
108298	Toroid Earth Leakage 68mm – (PM2000) N2831	30/07/2004	31/12/2015	No	
108296	Toroid Earth Leakage 112mm – (PM2000) N2831	30/07/2004	31/12/2015	No	
101677	Barrier 1.1kV Frozen Contactor – (PM2000) NM2834	30/07/2004	31/12/2015	No	
106514	BARRIER ZENER 3.3KV (PM2000) NM1043	30/07/2004	31/12/2015	No	
107774	STRAPS RETAINING PM2000 PR	30/07/2004	31/12/2015	No	
107487	Communication OSI AB Direct	30/07/2004	31/12/2015	No	
<b>PCM Series</b>					
PCM1	PCM1 Relay Series - all components	31/12/1999	31/12/1999	No	IPD or OCS system
PCM5	PCM5 Relay Series - all components	31/12/1999	31/12/1999	No	
<b>Earth Leakage Relays</b>					
ELA	ELA Relay	30/12/1985	30/12/1990	No	ELD or ELV
116516	ELB Relay	30/03/2007	12/01/2009	No	ELD or ELV
<b>ELC Series</b>					
101565	ELC Relay	27/03/2012	31/12/2016	No	ELD or ELV
101566	ELC/F Relay	27/03/2012	31/12/2016	No	
116913	RELAY ELC/CAG EL CONV	27/03/2012	31/12/2016	No	
116955	RELAY ELC/MIDOS EL	27/03/2012	31/12/2016	No	
117629	RELAY EL2 ELC 2 SEC DELAY	27/03/2012	31/12/2016	No	
118261	RELAY EL2/F ELC/F 2 SEC DELAY	27/03/2012	31/12/2016	No	
117504	RELAY EL3 ELC 3 SEC DELAY	27/03/2012	31/12/2016	No	
117663	RELAY EL3/F ELC/F 3 SEC DELAY	27/03/2012	31/12/2016	No	
117916	RELAY EL10/F ELC/F 10 SEC DELAY	27/03/2012	31/12/2016	No	
117827	RELAY ELC/CMLT/ELCM EL CONV	27/03/2012	31/12/2016	No	
101181	BASE FCK FRNT CONNECTED ELB/C	27/03/2012	31/12/2016	No	
101739	MODULE SHUNT PROT ELC ELC/F RLYS*	27/03/2012	31/12/2016	No	
106883	CONVERTER ELCM 0/10V 4/20mA O/P	27/03/2012	31/12/2016	No	
116342	BASE SKT ELC/FCK VPY C/W BASE SCREWS	27/03/2012	31/12/2016	No	
116620	REGULATOR 48VDC FOR USE W/ ELC RLY	27/03/2012	31/12/2016	No	
117119	RELAY LIB/F EL IND 110V	7/01/2009	26/05/2015	No	

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	<b>MM / ATF Mining Series</b>				
N1774L	1774L - Earth Leakage Lockout Relay	31/12/1999	31/12/1999	No	IPD or OCS system
NM1011/12/13	NM101 Core balance CT's - 50/75/100mm ID	31/12/1999	31/12/1999	No	
NM1041	Zener Barrier 1kV	31/12/1999	31/12/1999	No	
NM1043	Zener Barrier 3.3kV	31/12/1999	31/12/1999	No	
N55862B	3.3.kV reactors x 3	31/12/1999	31/12/1999	No	
HT18/79/8	Supply TXF Series 1774 - 110/240/415V AC	31/12/1999	31/12/1999	No	
	<b>Earth Continuity Relays</b>				
	<b>ECB Series</b>				MEC-1
119307	RELAY ECB EC 19-70VAC 19-90VDC	3/08/2012	14/11/2016	No	
119324	RELAY ECB EC 70-140VAC 90-190VDC	3/08/2012	14/11/2016	No	
120211	RELAY ECB/R EC 19-70VAC 19-90VDC	3/08/2012	14/11/2016	No	
120994	RELAY ECB/R EC 70-140VAC*	3/08/2012	14/11/2016	No	
	<b>ECM &amp; ECM-R Series</b>				MEC-1
101914	RELAY ECM EC 19-70VAC 19-90VDC	22/09/2015	14/11/2016	No	
106230	RELAY ECM EC 70-140VAC 90-190VDC	17/12/2015	14/11/2016	No	
121520	RELAY ECM/R EC 19-70VAC 19-90VDC	14/11/2016	14/11/2016	No	
121521	RELAY ECM/R ECT 70-140VAC*	26/05/2015	14/11/2016	No	
	<b>ECM2 Series</b>				ECM3
110051	RELAY ECM2 EC 20-50VAC 19-70VDC	14/11/2016	14/11/2016	No	
110053	MODULE ECM2 TERM W/ SUPPRESSION	14/11/2016	14/11/2016	No	
121772	MODULE ECM2 TERM	6/05/2013	14/11/2016	No	
	<b>RO Series</b>				ECD
101575	RELAY ROA IS EC	7/01/2009	7/01/2009	No	
101183	BASE ROA RLY	7/01/2009	7/01/2009	No	
101576	RELAY ROB IS EC	25/06/2015	25/06/2015	No	
101184	BASE ROB RLY	25/06/2015	25/06/2015	No	
101577	RELAY ROC IS EC	26/06/2016	31/12/2020	No	
IST001	TXF IST001 110V 10VA 16/0/16/0/6	26/05/2015	26/05/2015	No	
IST002	TXF IST002 110V 10VA 16/0/16/0/6	26/05/2015	26/05/2015	No	
101660	TXF IST003 110V 10VA 16/0/16/0/6	26/05/2015	26/05/2015	No	
116985	TXF IST004 240V 10VA 16/0/16/0/6	26/05/2015	26/05/2015	No	
	<b>PC Series</b>				ECM3
101574	RELAY PCA/2 EC NON IS	20/10/2016	31/12/2016	No	
106207	BASE PCA RLY	20/10/2016	31/12/2016	No	
	<b>MM / ATF Mining Series</b>				ECD
N1875	ISEC Series 1875	31/12/1999	31/12/1999	No	
N6661/2/6	Supply TXF Series 1875 - 110/240/415V AC	31/12/1999	31/12/1999	No	
N2832	ISEC Series 2832	31/12/1999	31/12/1999	No	
N6661/2/6	Supply TXF Series 2832 - 110/240/415V AC	31/12/1999	31/12/1999	No	
N1874	PCR Series 1874	31/12/1999	31/12/1999	No	
N6661/2/6	Supply TXF Series 1874 - 110/240/415V AC	31/12/1999	31/12/1999	No	
N2843	PCR Series 2843	31/12/1999	31/12/1999	No	
N6661/2/6	Supply TXF Series 2843 - 110/240/415V AC				
	<b>Earth Fault Lockout / Frozen Contactor Relays</b>				
121275	RELAY OMA V2.0 EFLO/LOV AUSEx	31/07/2016	31/12/2020	No	EFL-IS
110097	RELAY OMA V3.0 EFLO/LOV IECEx	31/07/2016	31/12/2020	No	EFL-IS
	<b>MM / ATF Mining Series</b>				
N17651/2	CFLR Series 1765	31/12/1999	31/12/1999	No	EFL-IS
N6661/2/6	Supply TXF Series 1765 - 110/240/415V AC	31/12/1999	31/12/1999	No	
N1740	Pre-Test CFLR relay Series 1740	31/12/1999	31/12/1999	No	
N1869	FC-EFLR Series 1869	31/12/1999	31/12/1999	No	EFL-IS
N1870	Zener Barrier Series 1869	31/12/1999	31/12/1999	No	
HT18/79/8	Supply TXF Series 1869 - 110/240/415V AC	31/12/1999	31/12/1999	No	
NM102	M102LOV - Loss of Vacuum relay Model M102	31/12/1999	31/12/1999	No	EFL-IS
NM1041	Zener Barrier 1kV	31/12/1999	31/12/1999	No	
NM1043	Zener Barrier 3.3kV	31/12/1999	31/12/1999	No	IPD or OCS system
N55862B	3.3.kV reactors x 3	31/12/1999	31/12/1999	No	IPD or OCS system
N2840	LOVR Series 2840	31/12/1999	31/12/1999	No	EFL-IS
NM1041	Zener Barrier 1kV	31/12/1999	31/12/1999	No	EFL-IS
NM1043	Zener Barrier 3.3kV	31/12/1999	31/12/1999	No	IPD or OCS system
N55862B	3.3.kV reactors x 3	31/12/1999	31/12/1999	No	IPD or OCS system

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<b>Overload Relays</b>					
<i>MM / ATF Mining Series</i>					
NM110	M110 Long Range Overload Relay	31/12/1999	31/12/1999	No	IPD or OCS system
NM110	M110 MKII Long Range Overload Relay	31/12/1999	31/12/1999	No	✓
NM1101	Current Transformers x 2	31/12/1999	31/12/1999	No	✓
ELM1	Remote load meter - edgewise	31/12/1999	31/12/1999	No	✓
ELM2	Remote load meter - 48Q	31/12/1999	31/12/1999	No	✓
ELM3	Remote load meter - 96Q	31/12/1999	31/12/1999	No	✓
<b>Voltage Relays</b>					
101582	RELAY UVR 48V U/V	12/09/2011	12/09/2011	No	Nil
116441	RELAY UVR 32V U/V	12/09/2011	12/09/2011	No	Nil
116924	RELAY UVR 24V U/V	12/09/2011	12/09/2011	No	Nil
116442	UOVR - under over voltage control relay	31/03/2007	31/03/2007	No	Nil
116349	PFPR 110V Phase Fail Reversal relay	31/03/2007	31/03/2007	No	Nil
116377	PFPR 415V Phase Fail Reversal relay	31/03/2007	31/03/2007	No	Nil
122136	PFTA phase fail timer	31/03/2007	31/03/2007	No	Nil
<b>Auxilliary Control Relays</b>					
<i>MM / ATF Mining Series</i>					
N1780	Pump Control Relay Series 1780	31/12/1999	31/12/1999	No	PF1 (EL,EC) Relay
N17801	Pump Control Relay Series 1780 c/w indication	31/12/1999	31/12/1999	No	✓
N17802	Pump Control Relay Remote display panel	31/12/1999	31/12/1999	No	✓
N6661/2/6	Supply TXF Series 1780 - 110/240/415V AC	31/12/1999	31/12/1999	No	✓
<b>Conveyor Speed &amp; Signal Line Control Relays</b>					
101580	RELAY SRB IS SEQ REC	3/08/2012	3/08/2012	No	iMAC System
101578	RELAY SLB IS SIGNAL LINE	7/01/2009	7/01/2009	No	✓
101581	RELAY SRD IS SIGNAL LINE REC	16/08/2012	Nil	No	✓
101579	RELAY SLD IS SIGNAL LINE DRIVER	17/11/2012	Nil	No	✓
DSSB	DSSB - digital speed switch type B	7/08/2012	Nil	No	✓
101564	DSSC - digital speed switch type C	7/08/2012	Nil	No	✓
SRA	SRA Relay	31/12/1999	20/07/2011	No	✓
122138	SRA-BIN Relay	31/12/1999	20/07/2011	No	✓
116199	TACHOMETER REVTEL 30P	28/06/2011	28/06/2011	No	✓
116493	TACHOMETER OPTAK30 OPTICAL 30 PULSE	6/01/2016	6/01/2016	No	✓
116648	RELAY LTM LINE TEST MOD (MTA)	27/05/2015	27/05/2015	No	✓