

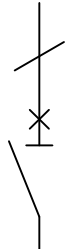

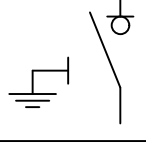
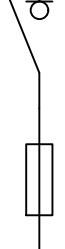



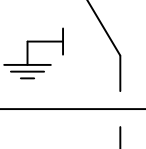

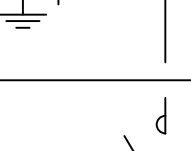
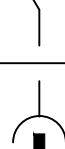

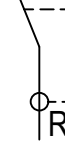
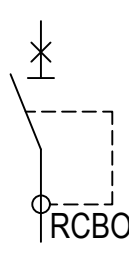


SWITCHGEAR AND BUSBARS OF SWITCHBOARD / ASSEMBLIES

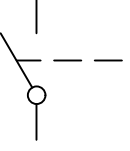
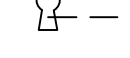
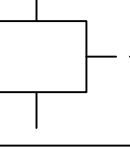

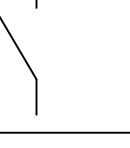
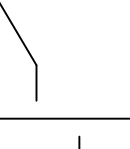
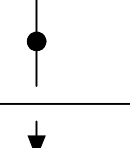
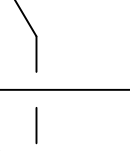
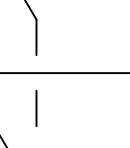
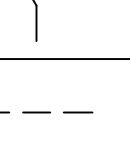
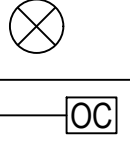
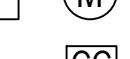
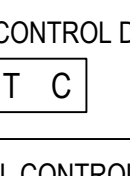
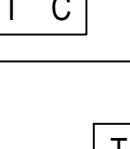
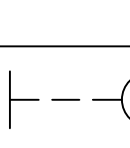
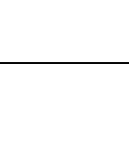



	CIRCUIT BREAKER
	CIRCUIT BREAKER (WITHDRAWABLE)
	No. OF POLES (1/2/3/4) - FOR ALL LV SWITCHGEAR LV CIRCUIT BREAKER SUITABLE FOR ISOLATION • ACB = AIR CIRCUIT BREAKER • MA = MAGNETIC TRIP ONLY • MCCB = MOULDED CASE CIRCUIT BREAKER • MCSD = MOULDED CASE SWITCH DISCONNECTOR
	SWITCH - DISCONNECTOR
	SWITCH - DISCONNECTOR & EARTH SWITCH COMBINATION
	SWITCH - DISCONNECTOR - FUSE
	FUSE SWITCH - DISCONNECTOR
	FUSE - DISCONNECTOR (DROP-OUT FUSES ON OHL)
	DISCONNECTOR
	DISCONNECTOR & EARTH SWITCH COMBINATION
	CENTER ROTATING DISCONNECTOR
	EARTHING SWITCH
	CONTACTOR
	CONTACTOR (WITHDRAWABLE)
	RESIDUAL CURRENT DEVICE LV SWITCH DISCONNECTOR



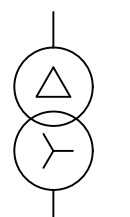
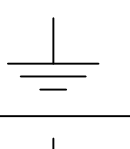
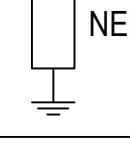
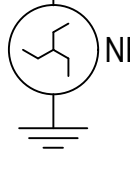
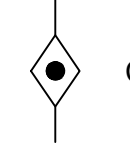
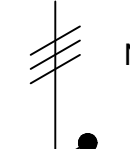
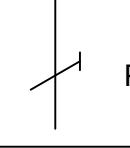
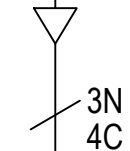
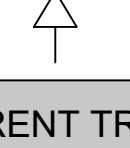
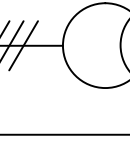
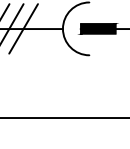
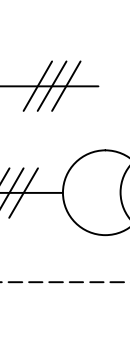
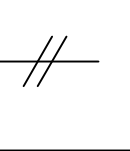
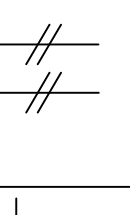
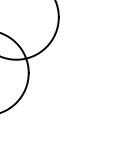
RESIDUAL CURRENT DEVICE
LV CIRCUIT BREAKER

***	BUSBAR: *** : No. AND RATINGS INDICATED
-----▽-----	MECHANICAL INTERLOCK
-----⏏-----	KEY INTERLOCK
-----E-----	ELECTRICAL INTERLOCK

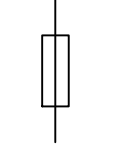
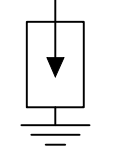
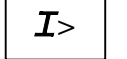

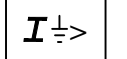
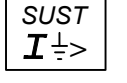
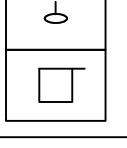




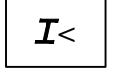
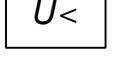
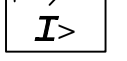
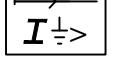
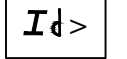


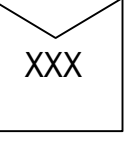
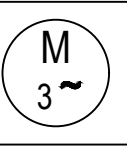

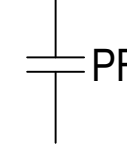
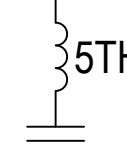

CONTROL AND INDICATION DEVICES

	OPERATED BY A LEVER
	OPERATED BY A KEY
	OPERATED BY ELECTROMAGNETIC ACTUATOR
	TEST POINT INDICATOR
	MAKE CONTACT
	BREAK CONTACT
	CHANGE-OVER CONTACT WITH OFF-POSITION IN CENTRE
	FLEETING CONTACT (PASSING MAKE CONTACT) CLOSING MOMENTARILY WHEN ITS OPERATING DEVICE IS ACTUATED OR RELEASED
	MANUALLY OPERATED SWITCH
	PUSH-BUTTON SWITCH MAKE CONTACT AND AUTOMATIC RETURN
	EMERGENCY SWITCH (MUSHROOM HEAD SAFETY FEATURE)
	INDICATION LAMP
	MOTOR OPERATED SWITCH WITH OPEN & CLOSE COILS
	SCADA / CONTROL DESK
	REMOTE CONTROL TRIP / CLOSE
	LOCAL CONTROL
	LOCAL CONTROL TRIP / CLOSE
	EXTENSION CORD CONTROL TRIP / CLOSE (PENDANT CONTROL)
	NEON CABLE LIVE INDICATORS


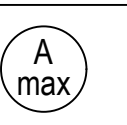
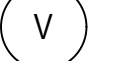
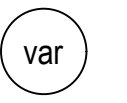
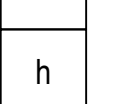
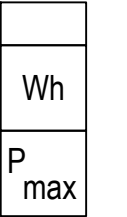
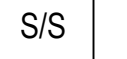
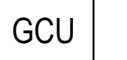
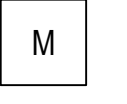
TRANSFORMERS AND NEUTRAL EARTHING EQUIPMENT

	DISTRIBUTION / POWER TRANSFORMER
	EARTHING CONNECTION
	NER NEUTRAL EARTHING RESISTOR
	NEC NEUTRAL EARTHING COMPENSATOR OR • NECR : WITH COMBINED NER • NECRT : WITH COMBINED NER AND AUXILIARY TRANSFORMER
POWER CABLES AND CONDUCTORS	
	CABLE JOINT
CONDUCTORS IN A WIREWAY:	
	No. OF PHASE CONDUCTORS
	NEUTRAL CONDUCTOR
	PROTECTIVE EARTH CONDUCTOR
	3N + E 4C X 50mm ² + 1C x 25mm ² CABLE AND EARTH CONTINUITY CONDUCTOR WITH No. OF CORES AND SIZES INDICATED
CURRENT TRANSFORMERS AND VOLTAGE TRANSFORMERS	
	VOLTAGE TRANSFORMER WITH No. OF PHASES INDICATED (FIXED)
	VOLTAGE TRANSFORMER WITH No. OF PHASES INDICATED (WITHDRAWABLE)
	CURRENT TRANSFORMER / VOLTAGE TRANSFORMER METERING UNIT (USED WITH OHL)
	CURRENT TRANSFORMER WITH THREE CORES (i.e. ONE PER PHASE) AND ONE SECONDARY WINDING PER CORE
	CURRENT TRANSFORMER WITH THREE CORES AND TWO SECONDARY WINDINGS PER CORE
	SUMMATION CURRENT TRANSFORMER

PROTECTION RELAYS AND DEVICES

	FUSE	# ANSI	-
	SURGE ARRESTOR	# ANSI	-
	OVERCURRENT RELAY	50/51	
	ARC PROTECTION RELAY	50ARC	
	EARTH FAULT RELAY	50N	
	SUSTAINED (TIME DELAY) EARTH FAULT RELAY	51N	
	BUCHHOLZ PROTECTIVE DEVICE (GAS RELAY)	63	
	AUTO-RECLOSE DEVICE	79	
	MOTOR PROTECTION RELAY	-	
	CAPACITOR PROTECTION RELAY	-	
	MASTER TRIP RELAY	86	
	NER MONITOR	50GS/51GS	
	UNDERCURRENT RELAY	37	
	UNDERVOLTAGE RELAY	27	
	DIRECTIONAL OVERCURRENT RELAY	67	
	DIRECTIONAL EARTH FAULT RELAY	67N	
	CURRENT DIFFERENTIAL RELAY	87	
	TEST BLOCK	-	
MOTORS, STARTERS AND GENERATORS			
	MOTOR STARTER: XXX INDICATES THE FOLLOWING: DOL : DIRECT ON LINE SS : SOFT STARTER VFC : VARIABLE FREQUENCY CONVERTER R : REACTOR AT : AUTO-TRANSFORMER		
	3 PHASE CAGE INDUCTION MOTOR		
	3 PHASE GENERATOR		
POWER FACTOR CORRECTION AND HARMONIC FILTERS			
	PFC POWER FACTOR CORRECTION CAPACITOR UNIT / BANK		
	5TH HARMONIC FILTER WITH ORDER INDICATED		
	PFC POWER FACTOR CONTROLLER		

MEASURING INSTRUMENTS

	AMMETER
	AMMETER WITH MAXIMUM DEMAND INDICATION
	VOLT METER
	VARMETER
	RUN-HOUR METER
	WATT-HOUR METER WITH MAXIMUM DEMAND RECORDER
	SELECTOR SWITCH
	GENERATOR CONTROL UNIT
	POWER METER

NOTES	
1. THESE SYMBOLS ARE BASED ON NRS 002 (2000) WHICH ARE IN LINE WITH IEC 60617.	
2. SYMBOLS MARKED WITH "★" ARE NOT 100% BASED ON NRS 002 DUE TO LACK OF SYMBOLS.	
3. ANSI LEGEND (MARKED WITH "#") INCLUDED FOR CLARITY / EASE OF USE.	