## **NHP Medium Voltage products** and manufactured solutions







reliability



protection system

and functionality

Medium voltage switchgear				Medium voltage transformers (Tx)  TRAFO ELETTRO			Medium voltage enclosed solutions for outdoor use			MV Liquid resistance starters		Motor control MV drives	
SwitchGear Company			MV SOLUT			TIONS		Rockwell Automation					
	Air insulated switchgear	Gas insulate	ed switchgear	Cast resin transformers	Oil immersed transformers	Enclosed transformers	Enclosed switchgear	Mv/lv kiosk substations	Fixed electrode	Moving electrode	All purpose drives	Special purpose drives	
					Address 1								
	DF-2 / DF-2+	DR/DT-6-C / DR/DT-6-C +	DR/DT-6-E / DR/DT-6-E +	TES-R	TES-OM	DFT	DFS	DFX	M350	HLR	PowerFlex 6000T	PowerFlex 7000	
n	Modular	Compact	Extensible	Cast Resin	Hermetically sealed	Cast resin in MS, SS	MS, SS or Al	MS, SS or Al	SS	SS	Air cooled	Air or liquid cooled	
	IP4X	IP6X	IP6X	IP00	IP66	IP43	IP54	IP54/33D and IP54/23D	IP42	IP42	IP31 or IP42	IP21/NEMA Type 1 or IP42	
	Internal arc classification for switchgear 7)			Arc flash mitigation		Arc flash mitigation	Internal arc slassification for kiosk <sup>6)</sup>		Arc flash resistant enclosure		Arc flash resistant enclosure		
е	A-FL(R) 16kA/1s /B-FLR 20kA/1s	A-FL(R) 16kA/1s /B-FLR 20kA/1s	A-FL(R) 16kA/1s /B-FLR 20kA/1s	Arc mitigation by design <sup>2)</sup>	Arc mitigation by design <sup>2)</sup>	Arc mitigation by design <sup>2)</sup>	IAC-AB Classification AS62271.202 <sup>3)</sup>	IAC-AB Classification AS62271.202 <sup>2) 3)</sup>	No	No	No	Yes, ArcShield option available	
	24kV	24 kV	24 kV	36kV	36kV	36kV	24kV	24kV	1.5kV	3.5kV	11kV	6.6kV	
	Switchgear max. Rated current 1)			Tx rated power		Tx rated power	Max. rated current 1)	Maximum rated power	Max. wound rotor		Max. rated power output		
	1250A	630A	630A	50kVA – 6MVA	50kVA – 7MVA	50kVA – 6MVA	1250A	200kVA – 2.5MVA smaller 200kVA kiosks are required sometimes	750kW	6.2MW	10.650kW	6000kW / 5595kW	
	Switchgear max. Rated short circuit current <sup>1)</sup>			Tx partial discharge		Tx partial discharge	Switchgear max. rated short circuit current <sup>1)</sup>		-		Drives max. Input voltage rating		

**Model type** Construction design <sup>4)</sup>

IP rating 5)

Arc fault performance

Max. rated voltage<sup>1)</sup>

<sup>1)</sup> For switchgear, maximum voltage and currents will vary depending on the specific customer selected VCB

<sup>2)</sup> Cast resin transformer arc mitigation design is achieved with plug in bushings with earth screened HV terminations installed as per NHP recommendations

<sup>3)</sup> When installed with DF-2+/DR-6+ (Arc-Killer) switchgear. Published DF2+/DR-6+ B-FLR IAC applies.

 $<sup>4) \</sup>quad \text{For enclosed solutions, an enclosure can be made from either SS} = \text{Stainless Steel}, \\ \text{MS} = \text{Mild Steel}, \\ \text{Al} = \text{Aluminium}$ 

<sup>5)</sup> For Cast resin Tx - IP54 applies to the MV/LV compartment, IP33D applies to the cast resin Tx compartment for oil immersed Tx - IP54 applies to the MV/LV compartment, IP23D applies to the oil Tx compartment For LRS Tank construction is IP42, control and switchgear panel is IP54

<sup>7)</sup> A-FLR is achieved using an arc duct. Without an arc duct the DF2 achieves an IAC of A-FL 16kA/1s.