LMS1 LOW VOLTAGE SWITCHGEAR MD MAX TYPE

Notable system advantages regarding design aspects:

- Optimum protection for personnel and plant
- Design verified by type testing including arc fault containment
- High operational reliability and availability
- Earthquake, vibration and shock-proof designs are available
- Maintenance accessible bus bar
- Rigid frame construction
- Simple retrofitting procedures
- Compact, space saving design
- Simplified project implementation utilizing LTC ‘s dedicated engineering tool
- Rigid frame construction.

Overview

The LAVAN TABLO LMS1 system is a low voltage switchgear assembly. Its design is verified in accordance with IEC 61439-1/-2. The consistent application of the modular principle both in electrical and mechanical design as well as the use of standardized components allow its flexible and compact design. Depending on operating and environmental conditions different design levels are available.

The LMS1 design proves to have the approved solution for the following industries:

- Oil & Gas, on and offshore
- Chemical/Petrochemical
- Pharmaceutical
- Power Stations, conventional, biomass, energy from waste
- Paper
- Water treatment
- Mining
- Steel
- Food
- Marine

LMS1 Rear Access

Technical data

standards		**Low voltage switchgear and control gear assemblies - verification**	**IEC 61439-1/2**
Test certification			
Electrical data Rated voltage		Rated insulation voltage Ui	1000 v 3~ 1500 v -**
		Rated operating voltage Ue	690 v 3~, 750 v -**
		Rated impulse withstand voltage Uimp	6/8/12kv
		Over voltage category	I/III/Iv I
		Degree of pollution	3
		Rated frequency	Up to 60 HZ
Electrical data Arc fault containment		Copper bus bars:	
		Rated current Ie	Up to 6300A
		Rated peak withstand current Ipk	Up to 250 KA
		Rated short time withstand current Icw	Up to 100 KA
		Copper Distribution bars	
		Rated current Ie	Up to 2000 A
		Rated peak withstand current Ipk	Up to 176 KA
		Rated short time withstand current Icw	Up to 100KA
		Rated operational voltage	Up to 690 V
		Prospective short-circuit current	Up to 100 KA
		Duration	300 ms
		Criteria (IEC 61641)	1 to 7
	Forms of segregation		Up to form 4b
Mechanical characteristic		Cubicles and frame	DIN 41488
		Recommended height	2200 mm
		Recommended width	400,600,800,1000, 1200 mm
		Recommended depth	400,600,800,1000, 1200 mm
		Basic grid size	E = 25 mm acc. To DIN 43660
	Degrees of protection	According to IEC60529	External from IP 30 to IP 54 External form IP 2x
	Surface of protection/paint	Frame, incl. internal, subdivisions	2.0/2.5 mm
		Cladding , internal	1.5/2.0 mm
		Cladding ,external	1.5 mm
		Frame, incl. internal, subdivisions	Zink or Aluzinc coated
		Cladding , internal	Zink or Aluzinc coated
		Cladding ,external	Zink or Aluzinc coated and powder coated RAL 70350(light grey)
Impact Test	Plastic components	Halogen-free, self-extinguishing, flame retardant	IEC 60707 , DIN VDE 0304 PART 3
Optional extras, available on request	Bus bar system	Bus bars	Bare, tinned or silver plated bars. Fully insulated with heat shrinkable sleeving and removable rubber boots.
	Special qualification	Test certification	See test certificates listed above
	Paint	Enclosure	Special colors on request