

SERIES VN HEAVY DUTY TECHNICAL INFORMATION



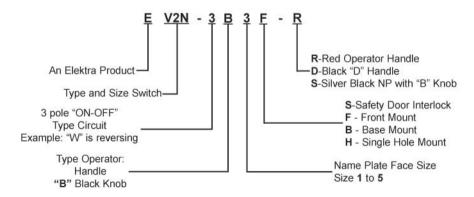
Utilization categories for alternating current switches as defined in IEC 947 (EN 60947) regulations			Test Load on the Switch Current				
Utilization category	Examples of typical application	Normal make	operation break	Inrush make	Tests break	Cos	
AC-21	Non inductive or slightly inductive loads, resistance furna	ace l _e	l _e	1.5 l _e	1.5 l _e	0.95	
AC-2	Slipping motor starting without reversing, without reverse current braking	e 2 I _e	2 l _e	4 I _e	4 l _e	0.65	
AC-22	On-Off switching of inductive loads cos	l _e 0.8	l _e 0.8	3 I _e	3 l _e	0.65	
AC-3	Direct line starting of squirrel cage motors, switching off while running	2 I _e	2 l _e	10 I _e	8 I _e	(3)	
AC-23	Switching of motors (Main Switch)	l _e 0.65	l _e 0.65	10 l _e	8 I _e	(3)	
AC-4	Direct line starting of squirrel cage motors (2)	6 l _e	6 l _e	12 l _e	10 I _e	(3)	
AC-15	Control switching for switching magnetics devices contactors, valves, pull-type magnets	10 l _e	l _e	10 l _e	10 I _e	0.3	

I_e = Rated operating current

(3) $I_e \le 100A \cos 0.45$; $I_e \ge 100A \cos 0.35$

CATALOG NUMBER CODE VN SERIES

EXAMPLE:



⁽²⁾ Inching (jogging) or energizing a motor for short periods of time to obtain small increments of movement. Plugging-stopping or reversing the motor rapidly by reversing motor primary connections while the motor is running.