

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 furnace	$I_e$	$I_e$	$1.5 I_e$	$1.5 I_e$	0.95
AC-2	Slipping motor starting without reversing, without reverse current braking	$2 I_e$	$2 I_e$	$4 I_e$	$4 I_e$	0.65
AC-22	On-Off switching of inductive loads  cos	$I_e$ 0.8	$I_e$ 0.8	$3 I_e$	$3 I_e$	0.65
AC-3	Direct line starting of squirrel cage motors, switching off while running	$2 I_e$	$2 I_e$	$10 I_e$	$8 I_e$	(3)
AC-23	Switching of motors (Main Switch)  cos	$I_e$ 0.65	$I_e$ 0.65	$10 I_e$	$8 I_e$	(3)
AC-4	Direct line starting of squirrel cage motors (2)	$6 I_e$	$6 I_e$	$12 I_e$	$10 I_e$	(3)
AC-15	Control switching for switching magnetics devices contactors, valves, pull-type magnets	$10 I_e$	$I_e$	$10 I_e$	$10 I_e$	0.3

$I_e$  = Rated operating current

(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.

(3)  $I_e \leq 100A \cos 0.45$ ;  $I_e \geq 100A \cos 0.35$

## CATALOG NUMBER CODE VN SERIES

### EXAMPLE:

