

FV35 MULTImatic



Part num.: IN5ZFF314050702
Power (kvar) Ue=400V: 140
Steps (kvar) Ue=400V: 20-3x40
Electrical steps nr.: 7
Disconnecter (A): 400
Icc (KA): 25
PFC Controller: 8BGA
Weight (kg): 380
Dimensions (mm): WxDxH 610x670x1960 (IP4X)

Ue	Un	Umax	f	THDIR%	I250Hz%	THDVR%
400V	460V	500V	50 Hz	100%	>25%	≤6%

Generalities

Zinc-passivated metallic enclosure painted with epossidic dust paint, colour RAL 7035.
Auxiliary transformer to separate power and auxiliary circuit parts (110V).
Load-break switch with door interlock.
Contactors for capacitive loads.
FS17 450/750V self-extinguish cable according to EN 50525 - EN 50575 - EN50575/A1 standards.
Microprocessor Power Factor Correction relay.
Control and protection multimeter MCP5, integrated in 8BGA controller.
CRM25 single phase self-healing metallized polypropylene with increased thickness and Un=460V rated voltage.
Three phase detuning choke with tuning frequency 135Hz (N=2.7 or p=13.7%).

Keys:

Ue: rated operational voltage
Un: nominal voltage of the capacitor
Umax: maximum operating voltage
THDIR%: total harmonic distortion relatively to the current in the plant
THDC%: total harmonic distortion that capacitor withstands
THDVR%: total harmonic distortion relatively to the voltage in the plant
I250HZ%: percent current of 5th harmonic
Electrical steps nr.: represents the number of possible combinations of the steps

Technical Info

Rated operational voltage: Ue=400V
Rated frequency: 50Hz
Max current overload In (bank): 1.3xIn
Max current overload In (capacitors): 1.3xIn (continuous)
Max current overload In (capacitors): 2xIn (x 500s every 60 min)
Max current overload In (capacitors): 3xIn (x 180s every 60 min)
Max current overload In (capacitors): 4xIn (x 90s every 60 min)
Max current overload In (capacitors): 5xIn (x 50s every 60 min)
Max overload Vn (bank): 1.1xUe
Max overload Vn (capacitors): 3xUn (x 1 min.)
Insulation voltage: 690V
Temperature class (bank): -5/+40°C
Temperature class (capacitors): -25/+70°C
Discharge device: mounted on each bank
Installation: indoor
Service: continuous
Internal connection: delta
Total losses: ~ 6W/kvar
Inner surface finish: zinc passivation

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