

Technical Data Sheet

Product Range – Power Factor Correction (PFC) Model – PFC-EM685-DT7-550

System kVAr Rating	685kVAr
Nominal Supply Voltage	415V 3/Ph
Capacitor Rated Voltage	550V 3/Ph
Nominal Operating Current	1362.80A
Recommended Fuse Size	1450A
Frequency	50Hz
PFC Type Standard/Detuned	Detuned* (See description)
PFC Control	Automatic
Switching Type	Contactor
Total Number of Stages	5
Stage Configuration	2x85.6/3x171.25kVAr
Minimum kVAr Resolution	85.6kVAr
Enclosure	Zinc Passivated Metallic enclosure painted with
epossidic dust paint	
Ingress protection	IP4X
Operating Ambient Temp	-5°C/+40°C
Ventilation	Natural
Height Approx	1960 mm
Width Approx	1220 mm
Depth Approx	670 mm
Weight Approx	860Kg
Cable Entry	Bottom & Bottom Sides
Warranty	1 Year



Description

IP4X floor standing enclosure with Bottom & Bottom Sides cable entry, 1960(h) x 1220(w) x 670(d). High quality 400/415V 3PH capacitors to give S1-85.6/S2-85.6/S3-171.25/S4-171.25/S5-171.25kVar contactor switched stages. Naturally air cooled with over temperature alarm and automatic disconnection of PFC stages. High accuracy PFC controller provides a wide selection of electrical measurements, including voltage and current THD with harmonic analysis up to 31st order. Intelligent automatic balanced use of stages which extends the life of the capacitors when compared to conventional PFC systems. Detuned PFC systems are suitable for use on 400/415V 3Ph 50Hz systems, with Total Harmonic Distortion values up to THDi%: ≤100% (total harmonic distortion relatively to the current in the plant) and THDc ≤25% (total harmonic distortion that capacitor withstands).

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