

Technical Data Sheet

Product Range – Power Factor Correction (PFC) Model – PFC-EM83-DT7-550

System kVAr Rating	83kVAr
Nominal Supply Voltage	415V 3/Ph
Capacitor Rated Voltage	550V 3/Ph
Nominal Operating Current	165.13A
Recommended Fuse Size	200A
Frequency	50Hz
PFC Type Standard/Detuned	Detuned* (See description)
PFC Control	Automatic
Switching Type	Contactors
Total Number of Stages	4
Stage Configuration	2x10/3x20kVAr
Minimum kVAr Resolution	10.5kVAr
Enclosure	Zinc Passivated Metallic enclosure painted with epossidic dust paint
Ingress protection	IP3X
Operating Ambient Temp	-5°C/+40°C
Ventilation	Natural
Height Approx	1403 mm
Width Approx	420 mm
Depth Approx	425 mm
Weight Approx	126Kg
Cable Entry	Bottom & Bottom Sides
Warranty	1 Year



Description

IP3X floor standing enclosure with Bottom & Bottom Sides cable entry, 1403(h) x 420(w) x 425(d). High quality 400/415V 3PH capacitors to give S1-10/S2-10/S3-20/S4-20/S5-20 kVar 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 3 Ph 50Hz systems, with Total Harmonic Distortion values up to THDi%: $\leq 100\%$ (total harmonic distortion relatively to the current in the plant) and THDc $\leq 25\%$ (total harmonic distortion that capacitor withstands).

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