

**Rittal – The System.**

Faster – better – everywhere.



**DK 7859.050**

**PSM Measurement Bar for CMC III**

State: 6/19/2026 (Source: [rittal.com/us-en](http://rittal.com/us-en))

ENCLOSURES

POWER DISTRIBUTION

CLIMATE CONTROL

IT INFRASTRUCTURE

SOFTWARE & SERVICES

FRIEDHELM LOH GROUP



# DK 7859.050 - PSM Measurement Bar for CMC III

One or two infeeds, with one or three phases, redundant when the plug-in module's direction of connection is changed. With measurement option in conjunction with the CMC III system.



## Features

---

Model No.	DK 7859.050
Product description	Measurement bars for direct connection to the CMC III system. With a PSM mounting kit, the measurement bar may be vertically mounted in 2000 mm high VX IT, TS IT or TS racks. Display and monitoring of all major output parameters is supported, separated by phase and infeed. An integral display provides a local on-site display in the rack. Remote administration and network connectivity are created via the CMC III system.

---

# Features

Benefits	<p>Modular system</p> <p>For 16 A and 32 A phase current</p> <p>Various PSM connection modules (pin patterns)</p> <p>PSM modules may be connected with the system operational</p> <p>Easy to mount</p> <p>CAN bus for direct connection to CMC III system (RJ 45, 2 x socket)</p> <p>Extensive management and monitoring functions (via CMC III)</p> <p>High-MTBF and measurement accuracy of 1%</p> <p>Energy-efficient electric design – minimal inherent power consumption</p> <p>High-quality aluminum housing, for flexible mounting</p> <p>Power supply via CMC III system (24 V DC)</p> <p>Maximum 8 systems can be connected to a CMC III Processing Unit</p> <p>Maximum 4 systems can be connected to a CMC III Processing Unit Compact</p>
Material	Aluminum extruded section, natural anodized
Type of connection (electrical)	Socket
Qty.	2
Phases per infeed	3~
Input voltage	230 V/400 V (50/60 Hz)
Rated current (max.)	16 A
Module slots (max.)	6
Guidelines	<p>Low-Voltage Directive 2014/35/EU</p> <p>EMC Directive 2014/30/EU</p>
Protection category IP to IEC 60529	IP 20
Standards	<p>EN 61000-6-1</p> <p>EN 61 000-6-2</p> <p>EN 55 022</p>
Measurement functions, description	<p>Voltage V, current A, frequency Hz</p> <p>Active power, active energy, apparent power, apparent energy</p> <p>Power factor (cos phi)</p> <p>Neutral conductor measurement/load imbalance detection</p> <p>Measurement per phase or infeed</p>

# Features

---

Suitable for	Enclosure type: VX IT TS IT TS Height: 2,000 mm Enclosure type: VX IT TS IT TS Height: 78.7 "
Operating temperature range	0 °C...45 °C 32 °F...113 °F
Ambient humidity (non-condensing)	10...95 %
Storage temperature range	-25 °C...70 °C -13 °F...158 °F
Packaging unit	1 pc(s).
Net weight	4.021 kg
Gross weight	4.36 kg
Customs tariff number	85369001
ETIM 9	EC000215
ECLASS 8.0	27371306
Product description	DK PSM measurement bar, 230 V/400 V, 3~, 16 A, 50/60 Hz, Infeed: 2, For H: 2000 mm

# Approvals

---

Approvals	IEC CB VDE
-----------	---------------