Reference: CPTDINAV53LS2AX

Selected parameters FUNCTION Transducers MOUNTING DIN Rail POWER SUPPLY 18 to 60V AC/DC OUTPUT DIGITAL INPUT None INPUT TYPE 3-phase AC CONNECTION CT/VT COMMUNICATION RS232 Others RANGE 400/(690)VLL 5(6)AAC DISPLAY None VARIABLES V, A, Hz, W,VA, var, PF, kWh, kvarh, Hours DIGITAL INPUTS none PULSE none ALARMS none ANALOGUE none

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Energy Management
Compact Power Transducer
Type CPT-DIN “Advanced version”
• One digital output and RS485 communication port (2 wires only)
• 16 freely configurable alarms with OR/AND logic linkable
to up to 2 digital outputs
• RS422/485/RS232 communication port (MODBUS- RTU), iFIX SCADA compatibility
Product Description
• Class 1 (kWh), Class 2 (kvarh)
• Accuracy ±0.5 F.S. (current/voltage)
• Compact power transducer
• Instantaneous variables data format: 4 DGT
• Energies data format: 8+1 DGT
• System variables and phase measurements: VLL, VLN, A, Amax, An, Admd,Admd max, VA, VAdmd, VAdmd max, W, Wdmd, Wdmdmax, WL1, WL2, WL3max, var, PF, PFL1, PFL2, PFL3 min, Hz, ASY
• Four quadrant power measurement
• Energy measurements: total and partial kWh and kvarh
(according to EN62053-21 and EN62053-23)
• Hour counter (5+2 DGT)
• TRMS meas. of distorted sine waves (voltages/currents)
• Universal power supply: 90 to 260 VAC/DC, 18 to 60 VAC/DC
• Dimensions: 45x83.5x98.5mm
• Voltage asymmetry, phase sequence, phase loss control
• Up to 3 analogue outputs (20mA or 10VDC)
• 2 digital outputs
How to order CPT-DINAV5 3 H A3 AX
3-phase compact power transducer. Particularly rec- ommended for the measure-

mentofthemain electrical variables also on board of machines.
Housing for DIN-rail mount-
ing, with up to 3 analogue outputs, or RS485 communi- cation port or alarm outputs or “Dupline” bus. Parameters programmablebymeans of CptASoft.
Model Range code System
Power supply Outputs Option
How to order
CptASoft-kit
Type Selection
CptASoft: software to program the working parameters of the transducer and to read the energies and the instanta- neous variables. The kit includes the communication cable.
Range codes
AV5: 400/690VL-L/1/5(6)AAC VL-N: 185 V to 460 V
VL-L: 320 V to 800 V
AV6: 120/208VL-L/1/5(6)AAC VL-N: 45 V to 145 V
VL-L: 78 V to 250 V Phase current: 0.01A to 6A
Neutral current: 0.05A to 6A
Inputspecifications
System
3 :1-2-3-phase, balanced/ unbalanced load, with or without neutral
1 :1-3-phase, balanced load (*)
(*) Note: the 3-phase balanced load measurement requires the connection of the neutral accord- ing to fig. 15 and 16 in the final part of this document.
Outputs
R2: 2-relay outputs
O2: 2-open collector outputs
A1: 1-analogue output:
0/4 to 20mA DC
A3: 3-analogue outputs:
0/4 to 20mA DC
V1: 1-analogue output:
0 to 10V DC
V3: 3-analogue outputs:
0 to 10V DC
S1: RS485/RS422 port
S2: RS232 port
DB:Dupline bus
Options
AX: advanced functions
Power supply L:18 to 60 VAC/VDC
H: 90 to 260 VAC/VDC
Rated inputsSystem type: 3
Current3 (internal current transformers) Voltage4
System type: 1
Current1 (internal CT) Voltage2
Accuracy (RS485) Imax: 6A, Vmax: 400VLN(690VLL), (@25°C ±5°C, R.H. ≤60%)In: 5A, Vn: 230VLN(400VLL)

CT: 1, VT (PT): 1
Range accuracy: 0.02In to 0.05In
Current ±(0.5%FS) or ±(1%RDG+2DGT)
Neutral current±(2%RDG+3DGT) Phase-phase voltage ±(0.5%RDG+2DGT) Phase-neutral voltage ±(0.5%RDG+2DGT)
Active and Apparent power,±(1.5%RDG+3DGT) Reactive power ±(3%RDG+3DGT)
Range accuracy: 0.05In to Imax
Current ±(0.5%RDG+2DGT) Neutral current±(1%RDG+3DGT) Phase-phase voltage ±(0.5%RDG+2DGT)
Phase-neutral voltage ±(0.5%RDG+2DGT) Active and Apparent power,±(1%RDG +3DGT)
Specifications are subject to change without noticeCPT-DIN A DS ENG0110121