✓ CLTEX* Quick Guide Series of single-phase energy meter EM-40-1P April 2021 • Version 1.00	The EM-40-1P single-phase energy meter is intended for energy measurements in single-phase electrical power networks. For more information see EM-40-1P User's manual. INSTALLATION Warning: Installation must be carried out and inspected by a specialist or under his supervision. When working on the meter, switch off the mains voltage! Recommended installation Mounting to DIN rail according to DIN EN60715. <i>Power contacts:</i> Power contacts capacity: flexible (Rigid) 1.5 mm ² – 10* mm ² (*Ferrule contact length should be 12 mm. Wire stripped to 14 mm) Connection screws M3.5 Max torque 0.8 Nm <i>Auxiliary terminals:</i> Auxiliary terminals contact capacity Flexible (Rigid) 0.05 mm ² – 1 (2.5) mm ² Auxiliary terminals screws M3 Max torque 0.6 Nm	Connection	Display description1. Actual Value.2. (\rightarrow) Energy power import. (\leftarrow) Energy power export.3. The sign indicates the specified counter is currently active (real-time data).4. Unit of measurement.TECHNICAL DATA Measuring inputType:single-phase (1b) S A Maximum current (I_{max}):40A Minimum current (I_{max}):40A Minimum current (I_{max}):5A Starting current:20 mA Power consumption at I_{ref} 230 V (-20 % - +15 %) Power consumption at U_n :40 A Nominal frequency (f_n):50 Hz and 60 Hz Minimum measuring time:10 s
Last page?	Accuracy Active energy: class 1 EN 62053-21, class B EN 50470-3 Reactive energy: class 2 EN 62053-23 LCD Number of digits: 7 Height of digits: 7 Height of digits: 5.5 mm LED Colour: red Pulse rate: 1000 imp/Wh LED on: no load indication Pulse output no load indication Pulse output 1 imp/Wh (Act. Imp. E) Pulse duration: 32 ms ± 2 ms Rated voltage DC: 27 V max Switched current 27 mA max Standard: EN 62053-31 (A&B)	Ambient conditions and Safety According standards for indoor active energy meters. Temperature and climatic condition according to EN 62052-11. Dust/water protection: IP50 (For IP51 it should be installed in appropriate cabinet) Touch by fingers protectionIP20 Operating temp. range: -25 °C - +55 °C Storage temp. Range -30 °C - +70 °C Enclosure material: self extinguish complying UL94 V Indoor meter: yes Degree of pollution: 2 Protection class: II Installation Category: 300 Vrms cat. III Standard: IEC 62052-31 EC Directives conformity EU Directive on EMC 2014/30/EU EU Directive on Low Voltage 2014/35/EU EC Directive WEEE 2002/96/EC	DIMENSIONAL DRAWINGS