2. Technical specifications

2.1. The principal technical data and meter versions are presented below.

Table 1

Type of the meter	Desig-nation	Con-nection	Reference voltage, V	Reference current, A	Imax, %Inom	Threshold sensitivity, % I_{rated}		Cons-tant, imp./ kWh
						Precision class		
						0.5s	1.0	
LZQM	311.03	four-wire	3x57.7/100; 3x63,5/110; 3x69,2/120	5	200	0,1	0,25	40000
	312.03			1	600			40000
	331.03		3x220/380; 3x230/400	5	200			10000
	341.03		3x120/208; 3x127/220	5				20000
	411.03 412.03	three-wire	3x100; 3x110; 3x120	5 1	600			40000 40000
	431.03		3x380; 3x400	5	200			10000
	441.03		3x220; 3x230	5				20000

Rated frequency 50 Hz or 60 Hz.

LZQM meter versions:

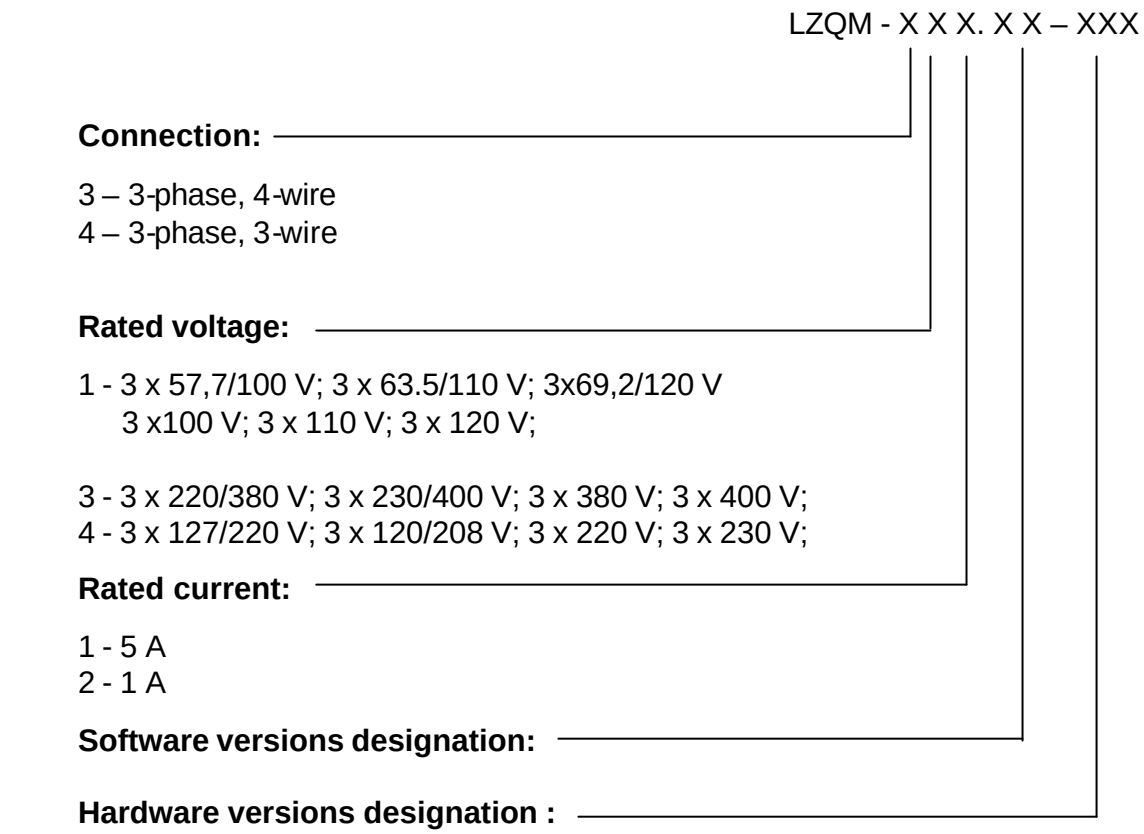

Fig. 1. Determination of the quadrant for power measurement

Metering data

Table 2

Parameter group	Parameter name	Index	Desig-nation	Notes
Actual information				The date (day of week, year-month-day), time: hour:minutes: seconds), quadrant, winter (w) / summer (s) time, tariff time zone (T1...T4)
Active +	Average power of integration period	11	+P15, +P30, +P60	Actual demand values for this integration period and the last 36 days-and-nights
	Maximum power of integration period for the 24-hour period	12	+P24h	Maximum demand values for each tariff time zone (T1...T4) during the current 24-hour period and the last 36 days-and-nights
	Maximum power of integration period for one month	13	+Pmnt	Maximum demand values for each tariff time zone (T1...T4) during the current month and each of the last 15 months
	Energy of the 24-hour period	14	+W24h	Energy consumed for all tariff time zones T1...T4 during the current 24-hour period and each of the last 5 days-and-nights
	Energy for one month	15	+Wmnt	Energy consumed for all tariff time zones T1...T4 during the current month and each of the last 15 months
	Total energy	16	+Wtot	All consumed energy for all tariff time zones T1...T4

Parameter group	Parameter name	Index	Desig-nation	Notes
Active -	Average power of integration period	21	-P15, -P30, -P60	Actual demand values for this integration period and the last 36 days-and-nights
	Maximum power of integration period for the 24-hour period	22	-P24h	Maximum demand values for each tariff time zone (T1...T4) during the current 24-hour period and the last 36 days-and-nights
	Maximum power of integration period for one month	23	-Pmnt	Maximum demand values for each tariff time zone (T1...T4) during the current month and each of the last 15 months
	Energy of the 24-hour period	24	-W24h	Energy consumed for all tariff time zones T1...T4 during the current 24-hour period and each of the last 5 days-and-nights
	Energy for one month	25	-Wmnt	Energy consumed for all tariff time zones T1...T4 during the current month and each of the last 15 months
	Total energy	26	-Wtot	All consumed energy for all tariff time zones T1...T4
Reactive +	Average power of integration period	31	+q15, +q30, +q60	Actual demand values for this integration period and the last 36 days-and-nights
	Maximum power of integration period for the 24-hour period	32	+q24h	Maximum demand values for each tariff time zone (T1...T4) during the current 24-hour period and the last 36 days-and-nights
	Maximum power of integration period for one month	33	+qmnt	Maximum demand values for each tariff time zone (T1...T4) during the current month and each of the last 15 months

Parameter group	Parameter name	Index	Desig-nation	Notes
Reactive +	Energy of the 24-hour period	34	+Q24h	Energy consumed for all tariff time zones T1...T4 during the current 24-hour period and each of the last 5 days-and-nights
	Energy for one month	35	+Qmnt	Energy consumed for all tariff time zones T1...T4 during the current month and each of the last 15 months
	Total energy	36	+Qtot	All consumed energy for all tariff time zones T1...T4
Reactive -	Average power of integration period	41	-q15, -q30, -q60	Actual demand values for this integration period and the last 36 days-and-nights
	Maximum power of integration period for the 24-hour period	42	-q24h	Maximum demand values for each tariff time zone (T1...T4) during the current 24-hour period and the last 36 days-and-nights
	Maximum power of integration period for one month	43	-qmnt	Maximum demand values for each tariff time zone (T1...T4) during the current month and each of the last 15 months
	Energy of the 24-hour period	44	-Q24h	Energy consumed for all tariff time zones T1...T4 during the current 24-hour period and each of the last 5 days-and-nights
	Energy for one month	45	-Qmnt	Energy consumed for all tariff time zones T1...T4 during the current month and each of the last 15 months
	Total energy	46	-Qtot	All consumed energy for all tariff time zones T1...T4
Telemetric	A parameter supplied to the telemetric input	01	Wtm	Data for all tariff time zones T1...T4 during the current and last month

Parameter group	Parameter name	Index	Desig-nation	Notes
Instanta-neous	Active power	02	P-L1	Power of each phase (L1, L2, L3) and summary (?) power
	Reactive power		Q-L1	
	Full power		S-L1	
	Voltage		U-L1	Voltage of each phase (L1 ... L3)
	Current		I-L1	Current of each phase (L1 ... L3)
	Power factor		cos?	
	Frequency			
Failures	Disconnections of the power supply	03	MF01	Number of disconnections of the power supply, date and time of the last 10 disconnections
	Changes of the number of phases		PF01	Number of changes, date and time of the last 5 changes
	Other failures		OF01	Number of failures of the meter
	Clock failures		CF01	Number of failures of the clock performance (for example, if the power supply is disconnected for a longer period than 12 months)
Parameters	Data entered into the meter at customizing time	04		Type of the device, serial number, code of the user, number of erasions of data, ranges of validity of the tariff time zones (T1...T4), calendar of festive days, dates of transition from summer to winter time and from winter to summer time, correction of the clock performance, integration times, destination of the relay output, the last day of the billing period, net baud rate of the "current loop" interface communication, measurement and telemetric constants.