Torque Settings

	Pz No. (mm)		Cables : Tightening	>1.5mm² torque (N.m)	Cables : Tightening t	≤1.5mm² orque (N.m)	Cable Stripping (mm)						
			Single Cable	Multi Cables	Single Cable	Multi Cable							
Consumer unit terminals													
Earth and neutral terminal bars	2	6.5	2	2	1.5	1.5	10						
Isolation													
Switch Disconnectors / Surge	2	6.5	3.6	3.6	3.6	3.6	15						
Circuit protection													
МСВ	2	6.5	2.8	2.8	2.8	2.8	13						
RCBO	2	5.5	2.1	2.1	2.1	2.1	13						
RCCB	2	5.5	2.8	2.8	2.8	2.8	13						
AFDD	2	2	2.1	2.1	2.1	2.1	13						

MTN Electrical Characteristics.

Poles	Rated Operational Voltage U _e (V)	Nominal Current	Breaking Capacity (I _{CN}) to BS EN 60898	Breaking Capacity (I _{CS}) to BS EN 60898	Rated Insulation Voltage UI (V)	Rated Impulse Voltage Uimp (kV)	Electrical Endurace	Connection of Auxiliaries
Single Pole	230	6 - 63A	6kA	6kA	500V	4kV	10,000 cycles	No

Power Loss

The power loss of MCB's is closely controlled by the standards and is calculated on the basis of the voltage drop across the main terminals measured at rated current. The power loss of hager circuit breakers is very much lower than that required by the British Standard, so in consequences run cooler and are less affected when mounted together.

The table below gives the watts loss per pole at rated current.

MCB Rated current (A)	0.5	1	2	3	4	6	10	13	16	20	25	32	40	50	63
Watts loss per pole		1.3	1.5	2.0	1.8	1.4	1.9	2.1	2.5	2.8	3.2	3.8	4.0	4.5	5.1

Connection

The circuit breaker can have the line\load connected to either the top or bottom terminals

Temperature Derating

MCBs are designed and calibrated to carry their rated current and to operate within their designated thermal time/current zone at 30°C. Testing is carried out with the breaker mounted singly in a vertical plane in a controlled environment. Therefore if the circuit breaker is required to operate in conditions which differ from the reference conditions, certain factors have to be applied to the standard data.

I _n (A)	-25°C	-20°C	-15℃	-10°C	-5°C	0°C	5°C	10°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C	50°C	55°C	60°C
6	8.64	8.4	8.16	7.92	7.68	7.44	7.2	6.96	6.72	6.48	6.24	6	5.76	5.52	5.28	5.04	4.8	4.56
10	14.4	14	13.6	13.2	12.8	12.4	12	11.6	11.2	10.8	10.4	10	9.6	9.2	8.8	8.4	8	7.6
16	23	22.4	21.8	21.1	20.5	19.8	19.2	18.6	17.9	17.3	16.6	16	15.4	14.7	14.1	13.4	12.8	12.2
20	28.8	28	27.2	26.4	25.6	24.8	24	23.2	22.4	21.6	20.8	20	19.2	18.4	17.6	16.8	16	15.2
25	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19
32	46.1	44.8	43.5	42.2	41	39.7	38.4	37.1	35.8	34.6	33.3	32	30.7	29.4	28.2	26.9	25.6	24.3
40	57.6	56	54.4	52.8	51.2	49.6	48	46.4	44.8	43.2	41.6	40	38.4	36.8	35.2	33.6	32	30.4
50	-	-	-	-	-	62	60	58	56	54	52	50	48	46	44	42	40	38
63	-	-	-	-	-	-	-	-	-	-	-	63	60.5	58	55.4	52.9	50.4	47.9