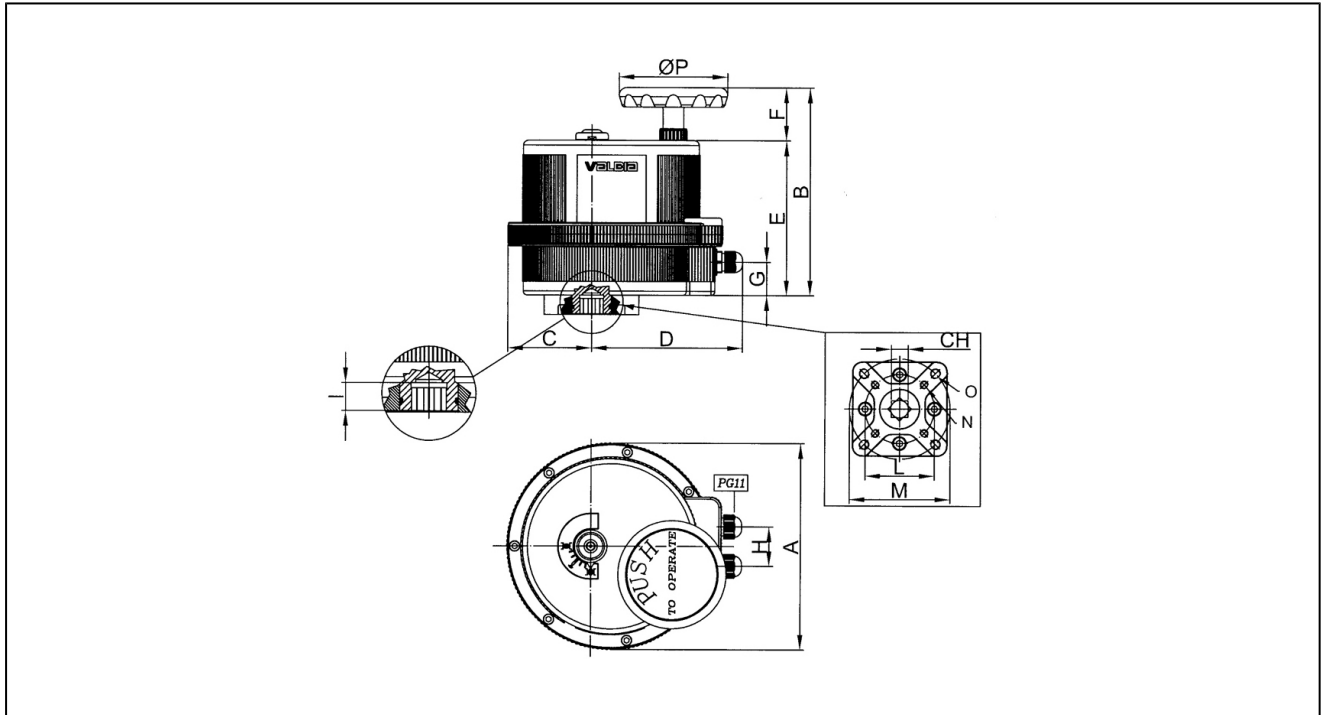


electrical actuator
series VB030, VB060, VB110, VB190, VB270 and VB350



design	electric gear motor with manual operation, single phase, actuator heating and torque control, adjusting range 90°
materials	body made of Polymer PA6, motor shaft nickel-plated steel
mounting position	any, preferable in upright position
temperature range	-20...+55°C
electrical specification	
type of current	AC and DC
electrical connection	above cable gland PG11 (enclosed in scope of supply)
limit switch-off	above integrated limit switch
duty cycle	see table "electrical data", but max. 100 operations a day
protection class	IP67 according to EN 60529 by correctly mounted cable inlet (protection against dust and water jet)
special version	accumulator for safety position(except at 12VDC), adjusting range 180° - 270°, positioner, position feedback potentiometer
characteristics:	
torque limitation	standard with electronic torque limitation. that protects valve and actuator of overload damage. by overloading the actuator stops. this function is indicated by a LED in the housing (cover plate has to be dropped off). after dispatching the overload the actuator can be charged electrically. There is no need to go into the end position manually.
actuator heating	actuator is supplied with integrated heating, which will be activated with external voltage and when the temperature in the housing is below +25°C.
voltage supply	actuators can be used for DC- or AC-voltage without changing running time and torque.

dimensions

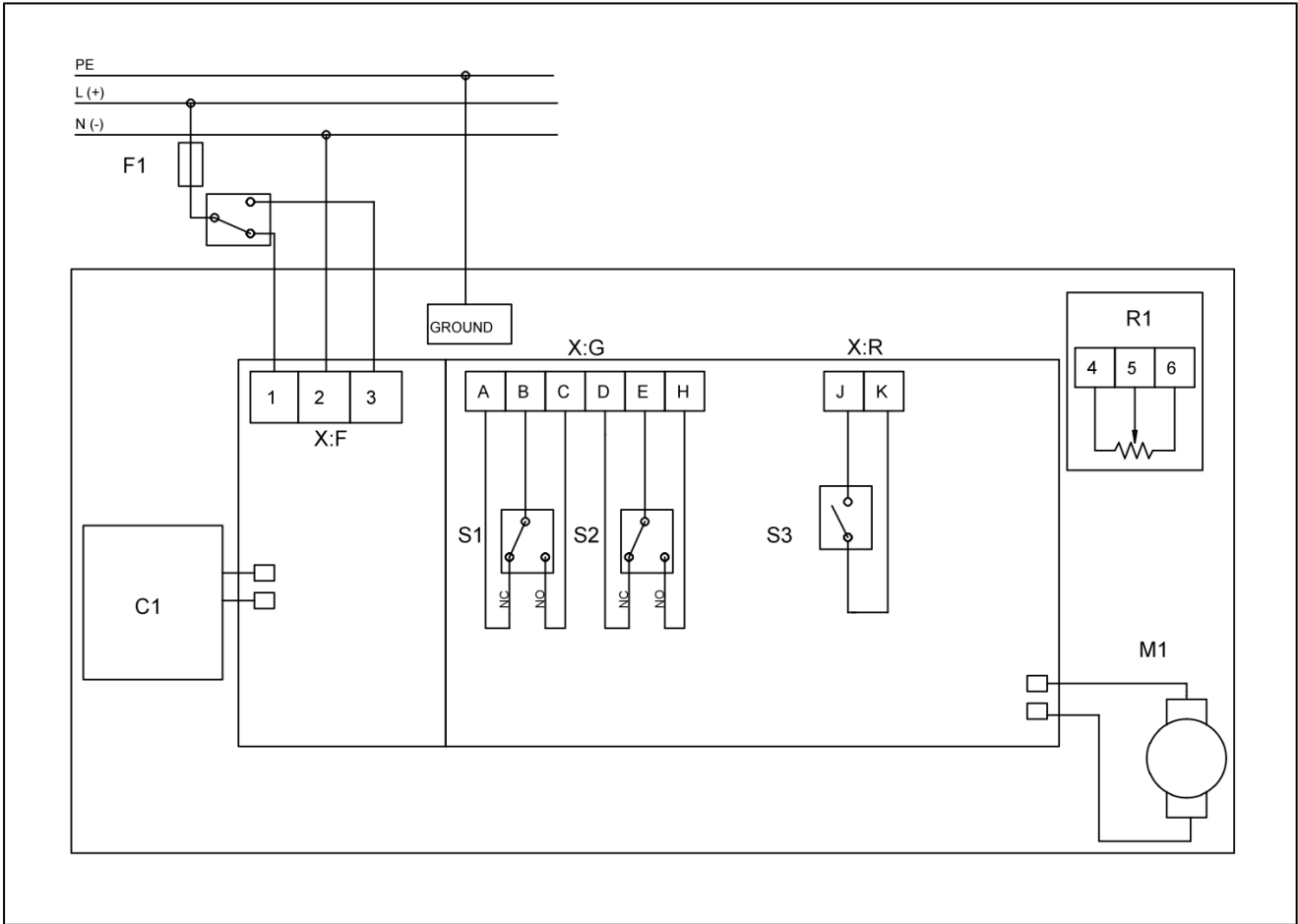


A	B	C	D	E	F	G	H	I	L	M	N	O	P	CH	flange ISO 5211	type
157	188	60,5	129,5	146	42	33	36	12	36	50	M5x12	M6x14	65	11	F03/F05	VB030
185	215	67,5	146,5	173	42	51	36	16	50	70	M6x15	M8x17	65	14	F05/F07	VB060
211	232,1	84	153	178	54,1	54	40	19	70	102	M8x20	M10x20	110	17	F07/F10	VB110
211	232,1	84	153	178	54,1	54	40	19	70	102	M8x20	M10x20	110	17	F07/F10	VB190
222	233,5	77	170	182	51,5	54	40	24	70	102	M8x20	M10x20	110	22	F07/F10	VB270
222	233,5	77	170	182	51,5	54	40	24	70	102	M8x20	M10x20	110	22	F07/F10	VB350

electrical data

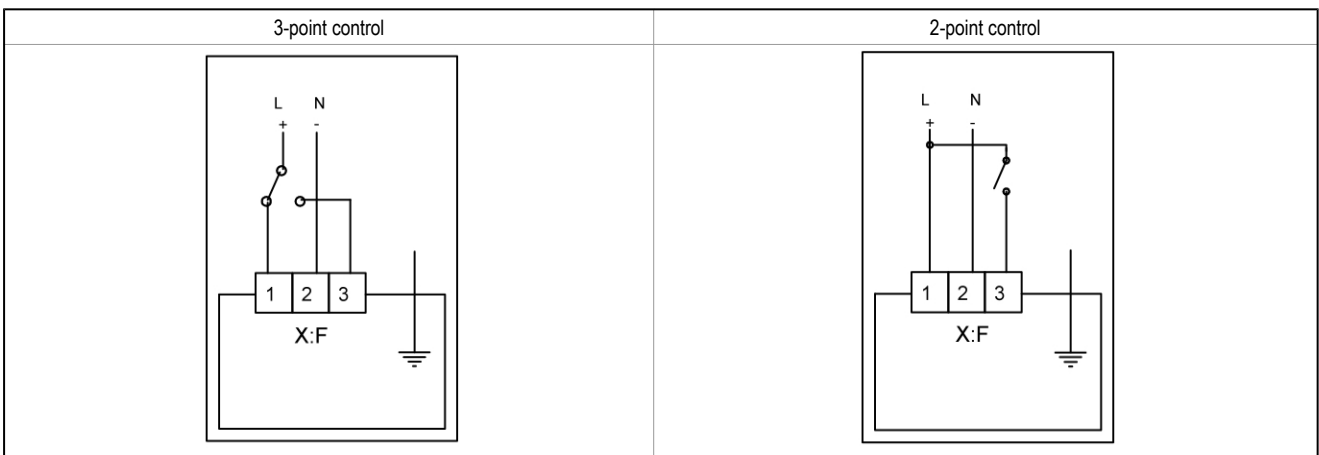
type	voltage	current consumption [A]	nominal torque [Nm]	duty cycle (S3)	weight [kg]	operating time [Sek.]
VB30-L-12	12V/50-60Hz/12VDC	AC 2,2 / DC 1,8	30	50%	2,3	8
VB30-L	24V/50-60Hz/24VDC	AC 1 / DC 0,7	30	75%	2,3	8
VB30-H	100-240V/50-60Hz	0,4-0,2	30	75%	2,3	8
VB060-L-12	12V/50-60Hz/12VDC	AC 3,8 / DC 2,85	60	50%	3,3	9
VB060-L	24V/50-60Hz/24VDC	AC 1,8 / DC 1,2	60	75%	3,3	9
VB60-H	100-240V/50-60Hz	0,6-0,3	60	75%	3,3	9
VB110-L-12	12V/50-60Hz/12VDC	AC 2,2 / DC 1,8	110	50%	4,9	27
VB110-L	24V/50-60Hz/24VDC	AC 1 / DC 0,7	110	75%	4,9	27
VB110-H	100-240V/50-60Hz	0,4-0,2	110	75%	4,9	27
VB190-L-12	12V/50-60Hz/12VDC	AC 3,8 / DC 2,85	190	50%	4,9	27
VB190-L	24V/50-60Hz/24VDC	AC 1,8 / DC 1,2	190	75%	4,9	27
VB190-H	100-240V/50-60Hz	0,6-0,3	190	75%	4,9	27
VB270-L-12	12V/50-60Hz/12VDC	AC 3,8 / DC 2,85	270	50%	6,0	50
VB270-L	24V/50-60Hz/24VDC	AC 1,8 / DC 1,2	270	75%	6,0	50
VB270-H	100-240V/50-60Hz	0,6-0,3	270	75%	6,0	50
VB350-L-12	12V/50-60Hz/12VDC	AC 4,75 / DC 3,65	350	50%	6,0	50
VB350-L	24V/50-60Hz/24VDC	AC 1,895 / DC 1,65	350	75%	6,0	50
VB350-H	100-240V/50-60Hz	0,75-0,4	350	75%	6,0	50

electrical connection



position	description	information
C1	accumulator for safety position	optionally available
R1	potentiometer 5 K Ω /1W	optionally available
S1	end position response close	standard max. 2A/250VAC-2A/30VDC
S2	end position response open	standard max. 2A/250VAC-2A/30VDC
S3	fault indicator	standard max. 1A/120VAC-2A/24VDC
X:F:1	terminal	actuator closing
X:F:2	terminal	
X:F:3	terminal	actuator opening

2-point control or 3-point control by changing of the electrical connection



illustrations are for information only and are non-binding
all designs, configurations, measurements and materials are subject to change without prior notice