

# **DA 75**

## **Winch motor**

### **Technical Info**

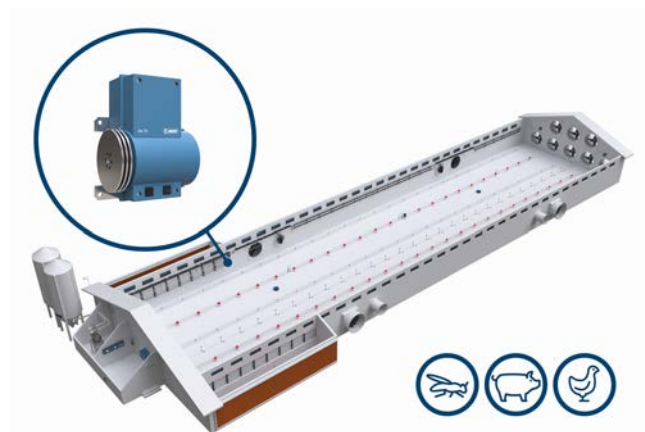




## 1 Product description

DA 75A is a winch motor for regulation of shutters and inlets. DA 75A has 2 wires which permit independent adjustment of pulling length and pulling direction. DA 75A is equipped with a feedback potentiometer for position indication.

The gear motor is relay-controlled and can be steplessly controlled between open and closed. In manual position, the motor can be opened, stopped, or closed with the manual switch. DA 75A has integrated limit switches and an internal current limiter, which protects the motor in case of unintended blocking. DA 75A is self-locking and remains in the position it was stopped. DA 75A can be emergency operated with a cordless drill and the supplied coupling piece.



DA 75A can also be used for joint emergency opening of several windows, e.g. for diffuse ventilation or for opening of curtain in case of natural ventilation.

The DA 75A series consists of 6 variants in total, all with the same torque, but with different pulling lengths and electrical connection.

The pulling force of the winch motor also depends on the required pulling length. The longer pulling length, the smaller pulling force.

DA 75A-1 is primarily used for smaller applications where the pulling length is between 250 and 550 mm.

DA 75A-3 is used for pulling lengths between 530 and 1070 mm.

DA 75A-6 is used for pulling lengths between 1160 and 2030 mm.

DA 75A-3 and DA 75A-6 are suitable all work involving gearing and great pulling force.

Using special pulley fittings, the pulling length of the winch motor can be reduced by 2 or 4 times. This also results in an increase in pulling force of almost 2 or 4 times.

### Correlation between pulling force and pulling length

DA 75A-1							
				One-way pull		Balanced	
Number of wire layers	Tensile length [mm]	Slacking length [mm]	Dimension to periphery before traction/slack [mm]	Tensile force [N]	Torque [Nm]	Tensile force [N]	Torque [Nm]
1	237	-	48	1794	56	2384	75
2	260	232	45	1748	60	2170	75
3	284	256	42	1702	64	1992	75
4	307	279	39	1656	68	1840	75

<b>Correlation between pulling force and pulling length</b>							
5	331	303	36	1610	71	1710	75
6	354	326	33	1564	74	1597	75
7	377	349	30	1498	75	1498	75
8	401	373	27	1411	75	1411	75
9	424	396	24	1379	75	1333	75
10	447	419	21	1333	75	1263	75
11	471	443	17	1263	75	1201	75
12	494	466	14	1201	75	1144	75
13	517	489	11	1144	75	1092	75
14	541	-	8	1092	75	1045	75
<b>DA 75A-3</b>							
1	502	-	48	1767	59	2251	75
2	549	-	45	1721	63	2059	75
3	596	484	42	1674	66	1898	75
4	642	530	39	1628	69	1760	75
5	689	577	36	1582	72	1640	75
6	736	624	33	1536	75	1536	75
7	783	670	30	1445	75	1445	75
8	829	717	27	1379	75	1363	75
9	876	764	24	1363	75	1290	75
10	923	811	21	1290	75	1225	75
11	969	857	17	1225	75	1166	75
12	1016	904	14	1166	75	1112	75
13	1063	951	11	1112	75	1064	75
14	-	-	8	1064	75	1019	75
<b>DA 75A/6</b>							
1	1117	-	48	1711	64	2025	75
2	1210	-	45	1665	67	1868	75
3	1303	-	42	1619	70	1735	75
4	1397	-	39	1573	73	1618	75
5	1490	-	36	1517	75	1517	75
6	1584	1135	33	1427	75	1427	75
7	1677	1229	30	1379	75	1348	75
8	1771	1322	27	1348	75	1277	75
9	1864	1416	24	1277	75	1213	75
10	1958	1509	21	1213	75	1155	75
11	2051	1603	17	1155	75	1102	75
12	-	1696	14	1102	75	1054	75
13	-	1789	11	1054	75	1010	75
14	-	-	8	1010	75	970	75

## 2 Product survey



**432035 DA 75A-1 winch motor 24V**

**432036 DA 75A-3 winch motor 24V**

**432037 DA 75A-6 winch motor 24V**

**432041 DA 75A-12 winch motor 24V**

Winch motor for regulation of shutters and inlets.

Is regulated steplessly with open/close relays in the controller.

Can also be controlled on/off via a relay switch, e.g. for emergency opening of a window in a house with diffuse air outlet.

In combination with an emergency opening, the winch motor can do an emergency opening in the event of a power failure or certain technical failures.



**32032 DA 75A-1 winch motor 230V**

**432033 DA 75A-3 winch motor 230V**

**432034 DA 75A-6 winch motor 230V**

**432063 DA 75A-12 winch motor 230V**

Winch motor for regulation of shutters and inlets.

Regulated by open/close relays in the controller.

An emergency opening can not be established with DA 75 230 V.

### 2.1 Accessories



**432925 DA 75A wire pulley set, 1 wire**

Additional wire pulley with wire.

Used for interlinking with 3 wires.

### 3 Technical data

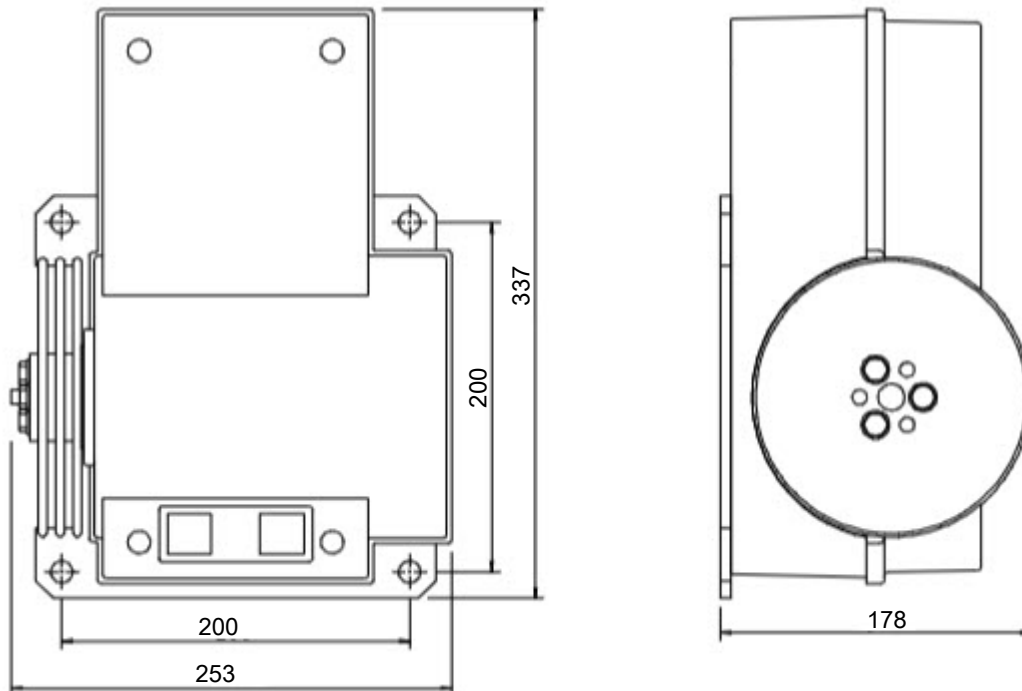
DA 75A 230 V AC		DA 75A-1 432032	DA 75A-3 432033	DA 75A-6 432034	DA 75A-12 432063
Operating voltage $\pm 15\%$	V AC	230	230	230	230
Current consumption	Amp.	0.36	0.36	0.36	0.36
Maximum continuous running time	Minute	30	30	30	30
Maximum torque	NM	75	75	75	75
Number of wire wheel turns		0.8	2.4	4.8	9.8
Running time between limit stop	Minute	2.5 - 3.5	2.5 - 3.5	5 - 7	10 - 13
2 wire tracks in width	mm	5	5	5	5
2 pcs. wire	$\varnothing$ mm	4	4	4	4
Wire length	Meter	10	10	10	10
Minimum pulling length	cm	25	53	116	280
Force	N	1771	1743	1688	1850
Maximum pulling length	cm	55	107	203	346
Force	N	1026	1053	1110	1520
Shipping weight	kg	16.2	17	16.8	16.9
Shipping dimensions	mm	415x315x175			
Protection class	IP	54			
		It is assumed that the base is flat, i.e. $\leq 1.5$ mm difference in height, and that the cover screws are tightened to a minimum of 200 Ncm.			
Capacitor	$\mu$ F	7			
Potentiometer	k $\Omega$	10			
Potentiometer position closed	%	0-2 % of maximum			
Potentiometer position open	%	90-95 % of maximum			

DA 75A 24V DC		DA 75A-1 432035	DA 75A-3 432035	DA 75A-6 432035	DA 75A-12 432041
Operating voltage $\pm 15\%$	V DC	24	24	24	24
Current consumption	Amp.	1.3	1.6	1.6	1.6
Maximum continuous running time	Minute	-	60	60	-
Maximum torque	NM	75	75	75	75
Number of wire wheel turns		1.2	2.4	4.8	9.6
Running time between limit stop	Minute	2.5 - 3.5	2.5 - 3.5	5 - 7	10 - 13
Number of wire tracks		2	2	2	2
Wire width	mm	5	5	5	5
Wire size	$\varnothing$ mm	4	4	4	4
Wire length	Meter	10	10	10	10
Minimum pulling length	cm	25	53	116	270
Force	N	1771	1743	1688	1850
Maximum pulling length	cm	55	107	203	346

DA 75A 24V DC		DA 75A-1 432035	DA 75A-3 432035	DA 75A-6 432035	DA 75A-12 432041
Force	N	1026	1053	1110	1520
Shipping weight	kg	14.6	15.4	15.2	14.6
Shipping dimensions	mm	415x315x175			
Protection class	IP	54 It is assumed that the base is flat, i.e. $\leq 1.5$ mm difference in height, and that the cover screws are tightened to a minimum of 200 Ncm.			
Control signal stepless		2 potential-free changeover contacts			
Control signal on/off emergency opening		1 potential-free break switch			
Potentiometer	k $\Omega$	10			
Potentiometer position closed	%	0-4 % of maximum			
Potentiometer position open	%	90-95 % of maximum			
Maximum cable length at 1.0 mm <sup>2</sup>	m	0-69			
Maximum cable length at 1.5 mm <sup>2</sup>	m	70-99			
Maximum cable length at 2.5 mm <sup>2</sup>	m	100-164			
Maximum cable length at 4.0 mm <sup>2</sup>	m	165-265			

### 3.1 Dimensioned sketch

Dimensions in mm.



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