

## 1.7 Selection tables

Type of control	Product range										
	DC-Pro	DCM-Pro	DCS-Pro	DCMS-Pro	DCRS-Pro	DC-ProCC	DC-ProDC	DC-ProFC	DC-Com	DC-ComCC	DC-ComDC
2-stage with electronic control system	X	X							X		
Variable			X	X	X						
2-stage for conventional contactor control						X				X	
2-stage for direct control							X				X
Variable-speed for control via an external frequency inverter								X			

## 1.7.1 DC-Pro, DCM-Pro, DC-ProCC, DC-ProDC, DC-Com, DC-ComCC and DC-ComDC with 2 lifting speeds

Load capacity [kg]	Chain hoist size DC-Pro DC-ProCC <sup>1)</sup> DC-ProDC	Reeving	Group of mechanisms DIN EN 14492 FEM/ISO	Lifting speed at		Hook path H from [m]	Motor size <sup>2)</sup>	Chain size [mm]	Max. weight for hook path					
				50 Hz [m/min]	60 Hz [m/min]				4 m [kg]	5 m [kg]				
80	1	1/1	4m/M7	8,0/2,0	9,6/2,4	3	ZNK 71 A 8/2 <sup>3)</sup>	4,2x12,2	21	22				
	2			16,0/4,0	19,2/4,8		ZNK 71 B 8/2							
	5			24,0/6,0	28,8/7,2		ZNK 80 B 8/2							
100	1			8,0/2,0	9,6/2,4		ZNK 71 A 8/2 <sup>3)</sup>	4,2x12,2	21	22				
	2			16,0/4,0	19,2/4,8		ZNK 71 B 8/2							
	5			24,0/6,0	28,8/7,2		ZNK 80 B 8/2							
125	1			8,0/2,0	9,6/2,4		ZNK 71 A 8/2 <sup>3)</sup>	4,2x12,2	21	22				
	2			16,0/4,0	19,2/4,8		ZNK 71 B 8/2							
	5			24,0/6,0	28,8/7,2		ZNK 80 B 8/2							
160	2			8,0/2,0	9,6/2,4		ZNK 71 B 8/2	4,2x12,2	21	22				
	5			16,0/4,0	19,2/4,8		ZNK 80 B 8/2							
	5			24,0/6,0	28,8/7,2		ZNK 80 B 8/2							
200	2			3m/M6	8,0/2,0		9,6/2,4	ZNK 71 B 8/2	4,2x12,2	21	22			
	5			4m/M7	16,0/4,0		19,2/4,8	ZNK 80 B 8/2				5,3x15,2	27	28
	10				24,0/6,0		28,8/7,2	ZNK 100 A 8/2						
250	2	2m+ <sup>4)</sup> /M5+	8,0/2,0	9,6/2,4	ZNK 71 B 8/2	4,2x12,2	21	22						
	5	4m/M7	16,0/4,0	19,2/4,8	ZNK 80 B 8/2				5,3x15,2	27	28			
	10		24,0/6,0	28,8/7,2	ZNK 100 A 8/2							7,4x21,2	46	48
315	5	4m/M7	8,0/2,0	9,6/2,4	ZNK 80 B 8/2	5,3x15,2	27	28						
	10		12,0/3,0	14,4/3,6	ZNK 100 A 8/2				7,4x21,2	46	48			
			24,0/6,0	28,8/7,2	ZNK 100 B 8/2							54	56	
400	5	3m/M6	8,0/2,0	9,6/2,4	ZNK 80 B 8/2	5,3x15,2	27	28						
	10	4m/M7	12,0/3,0	14,4/3,6	ZNK 100 A 8/2				7,4x21,2	46	48			
		3m/M6	24,0/6,0	28,8/7,2	ZNK 100 B 8/2							54	56	
500	5	2m+ <sup>4)</sup> /M5+	8,0/2,0	9,6/2,4	ZNK 80 B 8/2	5,3x15,2	27	28						
	10	4m/M7	12,0/3,0	14,4/3,6	ZNK 100 A 8/2				7,4x21,2	46	48			
		2m+ <sup>4)</sup> /M5+	24,0/6,0	28,8/7,2	ZNK 100 B 8/2							54	56	
630	10	4m/M7	6,0/1,5	7,2/1,8	ZNK 100 A 8/2	7,4x21,2	46	48						
			12,0/3,0	14,4/3,6	ZNK 100 B 8/2				54	56				
		3m/M6	6,0/1,5	7,2/1,8	ZNK 100 A 8/2				46	48				
800	10	3m/M6	12,0/3,0	14,4/3,6	ZNK 100 B 8/2	7,4x21,2	54	56						
			2m+ <sup>4)</sup> /M5+	6,0/1,5	7,2/1,8				ZNK 100 A 8/2	46	48			
		2m+ <sup>4)</sup> /M5+	12,0/3,0	14,4/3,6	ZNK 100 A 8/2				46	48				
1000	15	2m+ <sup>4)</sup> /M5+	12,0/3,0	14,4/3,6	ZNK 100 B 8/2	8,7x24,2	71	72						
		4m <sup>6)</sup> /M7	8,0/2,0	9,6/2,4										

1) DC-ProCC units weigh approximately 3 kg more.

2) See electric key data page for key motor data.

3) ZNK 71 A 8/2 with 380-415 V/50 Hz only for first delivery; a ZNK 71 B 8/2 motor is supplied for replacement requirements.

4) 2m+ corresponds to a service life of 1900 hours at full load.

5) FEM 1Am chain drive to EN 818-7

6) FEM 2m chain drive to EN 818-7

7) FEM 1Cm chain drive to EN 818-7

8) FEM 1Bm chain drive to EN 818-7

9) FEM 3m chain drive to EN 818-7

Load capacity [kg]	Chain hoist size DC-Pro DC-ProCC <sup>1)</sup> DC-ProDC	Reeving	Group of mechanisms DIN EN 14492 FEM/ISO	Lifting speed at		Hook path H from [m]	Motor size <sup>2)</sup>	Chain size [mm]	Max. weight for hook path	
				50 Hz [m/min]	60 Hz [m/min]				4 m [kg]	5 m [kg]
1250	10	2/1	4m/M7	6,0/1,5	7,2/1,8	3	ZNK 100 B 8/2	7,4x21,2	62	65
		1/1	1Am <sup>7)</sup> /M4	8,0/2,0	9,6/2,4				54	56
	15		3m <sup>6)</sup> /M6	8,0/2,0	9,6/2,4		71	72		
		16	3m <sup>5)</sup> /M6	12,0/3,0	14,4/3,6		ZNK 100 C 8/2	8,7x24,2	111	113
1600	10	2/1	3m/M6	6,0/1,5	7,2/1,8		ZNK 100 B 8/2	7,4x21,2	62	65
	15	1/1	2m+ <sup>4)</sup> <sup>8)</sup> /M5+	8,0/2,0	9,6/2,4				71	72
			2m+ <sup>4)</sup> <sup>7)</sup> /M5+	12,0/3,0	14,4/3,6				111	113
2000	10	2/1	2m+ <sup>4)</sup> <sup>5)</sup> /M5+	6,0/1,5	7,2/1,8		ZNK 100 B 8/2	7,4x21,2	62	65
	15		4m <sup>9)</sup> /M7	4,0/1,0	4,8/1,2				8,7x24,2	83
	25	1/1	2m+ <sup>4)</sup> /M5+	8,0/2,0	9,6/2,4		ZNK 100 C 8/2	10,5x28,2	113	115
2500	10	2/1	1Am <sup>6)</sup> /M4	4,0/1,0	4,8/1,2		ZNK 100 B 8/2	7,4x21,2	62	65
			3m/M6						8,7x24,2	83
	15	1/1	3m <sup>7)</sup> /M6	6,0/1,5	7,2/1,8	ZNK 100 C 8/2	10,5x28,2	123	126	
	16		1Am/M4	8,0/2,0	9,6/2,4	113	115			
3200	15	2/1	2m+ <sup>4)</sup> <sup>8)</sup> /M5+	4,0/1,0	4,8/1,2	ZNK 100 B 8/2	8,7x24,2	83	86	
	16		2m+ <sup>4)</sup> <sup>8)</sup> /M5+	6,0/1,5	7,2/1,8			123	126	
4000	25	2/1	2m+ <sup>4)</sup> /M5+	4,0/1,0	4,8/1,2	ZNK 100 C 8/2	10,5x28,2	125	130	
5000			1Am/M4							

#### Further special features for DC-ProDC for direct control

- The electric equipment cover is extended by an intermediate flange if the operating limit switch option for the lifting motion is selected,
- The max. line voltage with the control unit connected is 500 V,
- External control with GF brake module is possible up to 500 V,
- Braking from main lifting speed to standstill is only performed by the electro-mechanical brake,
- DC 5 - 15 brake adjustable, brake assignment partly differs from DC-Pro standard.
- For further information, see section 1.12.6.



Travel against the upper/lower limit position in normal operation and tripping of the slipping clutch caused by this is not permitted. If the upper limit position needs to be approached in normal operation, the chain hoist must be fitted with an operating limit switch.

1) DC-ProCC units weigh approximately 3 kg more.  
2) See electric key data page for key motor data.

4) 2m+ corresponds to a service life of 1900 hours at full load.  
5) FEM 1Am chain drive to EN 818-7  
6) FEM 2m chain drive to EN 818-7

7) FEM 1Cm chain drive to EN 818-7  
8) FEM 1Bm chain drive to EN 818-7  
9) FEM 3m chain drive to EN 818-7

## DCM-Pro Manulift (2 lifting speeds)

Load capacity [kg]	Chain hoist size DCM-Pro	Reeving	Group of mechanisms DIN EN 14492 FEM/ISO	Lifting speed at		Hook path H [m]	Motor size <sup>2)</sup>	Chain size [mm]	Max. weight for hook path	
				50 Hz [m/min]	60 Hz [m/min]				2,8 m [kg]	4,3 m [kg]
80	1	1/1	4m/M7	8,0/2,0	9,6/2,4	2.8 and 4.3	ZNK 71 A 8/2 <sup>3)</sup>	4,2x12,2	22	24
	2			16,0/4,0	19,2/4,8		ZNK 71 B 8/2			
	5			24,0/6,0	28,8/7,2		ZNK 80 B 8/2	5,3x15,2	28	30
125	1			8,0/2,0	9,6/2,4		ZNK 71 A 8/2 <sup>3)</sup>			
	2			16,0/4,0	19,2/4,8		ZNK 71 B 8/2			
	5			24,0/6,0	28,8/7,2		ZNK 80 B 8/2	5,3x15,2	28	30
200	2		3m/M6	8,0/2,0	9,6/2,4		ZNK 71 B 8/2	4,2x12,2	22	24
	5		4m/M7	16,0/4,0	19,2/4,8		ZNK 80 B 8/2	5,3x15,2	28	30
250	2		2m+ <sup>4)</sup> /M5+	8,0/2,0	9,6/2,4		ZNK 71 B 8/2	4,2x12,2	22	24
	5		4m/M7	16,0/4,0	19,2/4,8		ZNK 80 B 8/2	5,3x15,2	28	30
315	5		3m/M6	8,0/2,0	9,6/2,4		ZNK 80 B 8/2	5,3x15,2	37	38
400			2m+ <sup>4)</sup> /M5+							
500										

## DC-Com (2 lifting speeds)

Load capacity [kg]	Chain hoist size DC-Com DC-ComCC <sup>1)</sup> DC-ComDC	Reeving	Group of mechanisms DIN EN 14492 FEM/ISO	Lifting speed at		Hook path H from [m]	Motor size <sup>2)</sup>	Chain size [mm]	Max. weight for hook path		
				50 Hz [m/min]	60 Hz [m/min]				4 m [kg]	5 m [kg]	
80	1	1/1	4m/M7	8,0/2,0	9,6/2,4	3	ZNK 71 B 8/2	4,2x12,2	21	22	
100			3m/M6								
125											
160	2		2m/M5	6,0/1,5	7,2/1,8		ZNK 71 B 8/2				
200			3m/M6								
250											
315	5		2m/M5	4,5/1,1	5,4/1,3		ZNK 80 A 8/2	5,3x15,2	27	28	
400			3m/M6								
500											
630			10	2/1	2m/M5		4,0/1,0	4,8/1,2	ZNK 100 A 8/2	7,4x21,2	47
800											
1000	ZNK 100 B 8/2										
1250	63	65									
1600											
2000											

1) DC-ComCC units weigh approximately 3 kg more.  
2) See electric key data page for key motor data.

3) ZNK 71 A 8/2 with 380-415 V/50 Hz only for first delivery; a ZNK 71 B 8/2 motor is supplied for replacement requirements.

4) 2m+ corresponds to a service life of 1900 hours at full load.

1.7.2 DCS-Pro, DCMS-Pro, DCRS-Pro (variable lifting speed)

Load capacity [kg]	Chain hoist size DCS-Pro	Reeving	Group of mechanisms DIN EN 14492 FEM/ISO	Lifting speed <sup>1)</sup> at 50/60 Hz		Hook path H from <sup>2)</sup> [m]	Motor size <sup>3)</sup>	Chain size [mm]	Max. weight for hook path	
				V <sub>Srated</sub> [m/min]	V <sub>Smax</sub> [m/min]				4 m [kg]	5 m [kg]
80	1	1/1	4m/M7	0,15-30	30	3	ZNK 71 B 4	4,2x12,2	24	25
100										
125										
200	2		3m/M6	0,15-16						
250										
315	5		4m/M7	0,08-8						
10				0,11-12	22		ZNK 100 A 4	7,4x21,2	57	59
400	5		3m/M6	0,08-8	15		ZNK 80 A 4	5,3x15,2	28	29
10				0,11-12	22		ZNK 100 A 4	7,4x21,2	57	59
500	5		2m+ <sup>4)</sup> /M5+	0,08-8	15		ZNK 80 A 4	5,3x15,2	28	29
630				10	4m/M7		0,11-12	22	ZNK 100 A 4	7,4x21,2
800	0,06-6		11				52	54		
1000	10	3m/M6	0,11-12			22	57	59		
			0,06-6			11	52	54		
15	15	2m+ <sup>4)</sup> /M5+	0,06-6			11	52	54		
			0,11-12			22	57	59		
1250	10	4m <sup>5)</sup> /M7	0,08-8	15	8,7x24,2	74	75			
			1Am <sup>6)</sup> /M4	0,08-8	15	7,4x21,2	52	54		
1600	10	2/1	4m/M7	0,06-6	11	65	68			
			3m <sup>7)</sup> /M6	0,08-8	15	8,7x24,2	74	75		
2000	10	2/1	3m/M6	0,06-6	11	7,4x21,2	65	68		
			2m+ <sup>4)</sup> <sup>8)</sup> /M5+	0,08-8	15	8,7x24,2	74	75		
2500	10	2/1	2m+ <sup>4)</sup> <sup>7)</sup> /M5+	0,06-6	11	7,4x21,2	65	68		
			4m <sup>9)</sup> /M7	0,04-4	7	8,7x24,2	86	89		
3200	15	2/1	1Am <sup>6)</sup> /M4			0,04-4	7	7,4x21,2	65	68
			3m <sup>5)</sup> /M6	8,7x24,2	86			89		
3200	15	2/1	2m+ <sup>4)</sup> <sup>7)</sup> /M5+							

DCMS-Pro Manulift and DCRS-Pro rocker switch (variable lifting speed)

Load capacity [kg]	Manulift size		Reeving	Group of mechanisms DIN EN 14492 FEM/ISO	Lifting speed <sup>1)</sup> at 50/60 Hz		Hook path H [m]	Motor size <sup>3)</sup>	Chain size [mm]	Max. weight for hook path						
	DCMS-Pro	DCRS-Pro			V <sub>Srated</sub> [m/min]	V <sub>Smax</sub> [m/min]				2,8 m [kg]	4,3 m [kg]					
80	1	1	1/1	4m/M7	0,15-30	30	2.8 and 4.3	ZNK 71 B 4	4,2x12,2	25	27					
125																
200					2							2	3m/M6	0,15-16		
250	2m+ <sup>4)</sup> /M5+															
315		5		-	4m/M7							0,08-8	15	ZNK 80 A 4	5,3x15,2	37
400																
500	2m+ <sup>4)</sup> /M5+															

1) ● v<sub>Smin</sub> corresponds to a control ratio v<sub>Smin</sub> : v<sub>Smax</sub> of 1 : 200 (default setting 1 : 100)  
 ● v<sub>Smax</sub>, v<sub>Srated</sub>, v<sub>Smin</sub>, acceleration time and deceleration time can be changed by programming parameters on the control pendant (see "DCS-Pro chain hoist operating instructions")  
 ● Max. lifting speed in the partial load range/without load  
 ● For DCS-Pro 1, DCMS-Pro 1, DCRS-Pro 1 units, the max. lowering speed corresponds to 78% of v<sub>Srated</sub>

2) Longer hook paths on request.

3) See electric key data page for key motor data.

4) 2m+ corresponds to a service life of 1900 hours at full load.

5) FEM 2m chain drive to EN 818-7

6) FEM 1Cm chain drive to EN 818-7

7) FEM 1Am chain drive to EN 818-7

8) FEM 1Bm chain drive to EN 818-7

9) FEM 3m chain drive to EN 818-7

## 1.7.3 DC-ProFC (variable lifting speed) for control via an external frequency inverter

Load capacity [kg]	Chain hoist size DC-ProFC	Reeving	Group of mechanisms DIN EN 14492 FEM/ISO	Chain size [mm]	Lifting speed at motor speed <sup>1)</sup>				Gearbox transmission ratio i	Motor size <sup>2)</sup>	Max. weight for hook path <sup>3)</sup>		
					v <sub>Srated</sub>		v <sub>Smax</sub>				4 m [kg]	5 m [kg]	
					[m/min]	[rpm]	[m/min]	[rpm]					
80	1	1/1	4m/M7	4,2x12,2	14,6	2550	26,6	25,57	ZNK 71 B 4	24	25		
100					14,6		26,6					25,57	
125					14,6		26,6					25,57	
160	2		3m/M6		4,2x12,2		14,6					26,6	25,57
200							14,6					26,6	25,57
250							2m+ <sup>4)</sup> /M5+					26,6	25,57
315	5		4m/M7	5,3x15,2	7,1	2550	13,0	54,24	ZNK 80 A 4	29	30		
	10			7,4x21,2	10,2		18,6	53,07	ZNK 100 A 4	48	50		
400	5		3m/M6	5,3x15,2	7,1		13,0	54,24	ZNK 80 A 4	29	30		
	10		4m/M7	7,4x21,2	10,2		18,6	53,07	ZNK 100 A 4	48	50		
500	5		2m+ <sup>4)</sup> /M5+	5,3x15,2	7,1		13,0	54,24	ZNK 80 A 4	29	30		
	630		10	4m/M7	7,4x21,2		10,2	18,6	53,07	ZNK 100 A 4	48	50	
5,4		9,8					100,15						
10,2		18,6					53,07						
5,4		9,8					100,15						
10,2		18,6					53,07						
5,4		9,8					100,15						
800	15	4m <sup>5)</sup> /M7	8,7x24,2	6,7	12,3		91,68	ZNK 100 C 2	73	74			
				1Am <sup>6)</sup> /M4	7,4x21,2	3,8	7,0				140,96		
1000	10	4m/M7	7,4x21,2	5,1	4650	9,3	53,07	ZNK 100 C 2	113	115			
				3m <sup>7)</sup> /M6		8,7x24,2					6,7	12,3	91,68
				3m <sup>8)</sup> /M6		8,7x24,2					21,8	21,8	62,05
1250	10	2/1	3m/M6	7,4x21,2		5,1	2550	9,3	53,07	ZNK 100 A 4	64	67	
	15		2m+ <sup>4)</sup> <sup>8)</sup> /M5+	8,7x24,2		6,7	12,3	91,68	73	74			
	15	1/1	3m <sup>7)</sup> /M6	8,7x24,2		6,7	12,3	91,68	ZNK 100 C 2	113	115		
	16		3m <sup>8)</sup> /M6	8,7x24,2		21,8	21,8	62,05					
1600	10	2/1	3m/M6	7,4x21,2		5,1	2550	9,3	53,07	ZNK 100 A 4	64	67	
	15		2m+ <sup>4)</sup> <sup>8)</sup> /M5+	8,7x24,2		6,7	12,3	91,68	73	74			
	16	1/1	2m+ <sup>4)</sup> <sup>6)</sup> /M5+	8,7x24,2		21,8	4650	21,8	62,05	ZNK 100 C 2	113	115	
	25		3m/M6	10,5x28,2		13,0	13,0	101,00	115	117			
2000	10	2/1	2m+ <sup>4)</sup> <sup>7)</sup> /M5+	7,4x21,2		5,1	2550	9,3	53,07	ZNK 100 A 4	64	67	
	15		4m <sup>9)</sup> /M7	8,7x24,2	3,4	6,1	91,68	85	88				
	16	1/1	2m+ <sup>4)</sup> /M5+	10,5x28,2	13,0	4650	13,0	62,05	ZNK 100 C 2	125	128		
	25		2m+ <sup>4)</sup> /M5+	10,5x28,2	13,0	13,0	101,00	115	117				
2500	10	2/1	1Am <sup>6)</sup> /M4	7,4x21,2	3,6	2550	6,5	75,67	ZNK 100 A 4	64	67		
	15		3m <sup>5)</sup> /M6	8,7x24,2	3,4	6,1	91,68	85	88				
	16	1/1	1Am/M4	10,5x28,2	10,9	4650	10,9	62,05	ZNK 100 C 2	125	128		
	25		1Am/M4	10,5x28,2	13,0	13,0	101,00	115	117				
3200	15	2/1	2m+ <sup>4)</sup> <sup>7)</sup> /M5+	8,7x24,2	3,4	2550	6,1	91,68	ZNK 100 A 4	85	88		
	16		2m+ <sup>4)</sup> <sup>8)</sup> /M5+		10,9	10,9	62,05	125	128				
4000	25		2m+ <sup>4)</sup> /M5+	10,5x28,2	6,5	4650	6,5	101,00	ZNK 100 C 2	127	132		
			1Am/M4		6,5		6,5	101,00					

1) Max. lifting speed in the partial load range/without load

2) See electric key data page for key motor data.

3) Hook paths as for DC-Pro.

4) 2m+ corresponds to a service life of 1900 hours at full load.

26 5) FEM 2m chain drive to EN 818-7

6) FEM 1Cm chain drive to EN 818-7

7) FEM 1Am chain drive to EN 818-7

8) FEM 1Bm chain drive to EN 818-7

9) FEM 3m chain drive to EN 818-7