


# Mbsm.pro, Danfoss, Reciprocating, compressor, NLX11KK.2, 105H6971, NLX11KK.2 105H6971, 1/4 hp++, 1/3 hp-, r600a

Category: compressor  
 written by mahdi miled | 10 November 2022



			-35	-30	-20	-15	-10	-5	0	5	[W]	[W/W]	[W/W]	[W]	[kcal/h]	[W/W]	[kcal/Wh]	
Energy-optimized	1.	PLE35K	101H0360		38	52	68	87	109		27		0.68	38	33			
		TLES4KK.3	102H4438	19	29	57	75	96			42	0.90		57	49	1.18		
		TLES4.8KK.3	102H4538	28	40	73	94	119			55	1.00		74	65	1.30		
		TLES5.7KK.3	102H4638	36	50	89	114	144			68	1.02		91	79	1.32		
		TLES6.5KK.3	102H4738	45	61	105	134	168			81	1.02		108	94	1.31		
		TLES7.5KK.3	102H4838	53	71	122	155	194			94	1.02	1.07	126	108	1.32	1.14	
		TLES8.7KK.3	102H4938	62	83	143	181	228			110	1.03	1.08	147	126	1.33	1.14	
		TLES10KK.3	102H4038								130	1.04		172	148	1.35	1.15	
		NLES8.8KK.4	105H6800	63	84	141	179	223			110	1.18	1.22	147	127	1.51	1.30	
		NLE10KK.4	105H6867	74	98	164	207	257			128	1.19	1.23	170	151	1.51	1.30	
High Energy-optimized	4.	NLE11KK.4	105H6952	82	109	184	232	290			143	1.19	1.22	191	165	1.52	1.31	
		NLE13KK.4	105H6959	99	131	217	274	340			170	1.18	1.23	226	194	1.50	1.29	
		NLE15KK.4	105H6968	110	146	243	307	382			190	1.20	1.25	253	213	1.53	1.32	
	3.	1.	TLY4KK.3	102H4442	19	29	57	74	95			42	0.96	0.99	57	49	1.26	1.08
			TLY4.8KK.3	102H4542	28	40	73	94	119			55	1.04	1.06	74	65	1.35	1.16
			TLY5.7KK.3	102H4642	36	51	89	114	144			68	1.03	1.06	91	79	1.33	1.15
			TLY6.5KK.3	102H4742	46	62	106	135	170			82	1.10	1.14	110	94	1.42	1.22
			TLY7.5KK.3	102H4842	53	71	122	155	194			94	1.09	1.14	126	108	1.41	1.22
			TLY8.7KK.3	102H4942	65	86	144	182	227			112	1.12	1.16	149	126	1.44	1.24
			TLX4KK.3	102H4447	21	32	59	76	95			45		1.15***	60	52		
		TLX4.8KK.3	102H4547	36	52	90	116	146			57		1.24***	76	65			
	TLX5.7KK.3	102H4647	37	52	91	115	143			70		1.28***	93	80				
	TLX6.5KK.3	102H4747	46	63	106	133	165			83		1.30***	110	95				
	TLX7.5KK.3	102H4847	55	75	125	157	195			98		1.32***	130	112				
	TLX8.7KK.3	102H4947	65	88	146	184	227			115		1.31***	152	131				
1.		NLX8.8KK	105H6874	60	83	144	182	227			111		1.35	148	127			
		NLX10KK	105H6871	74	100	169	215	269			131		1.36	174	150			
		NLX11KK	105H6984	84	112	189	240	300			147		1.36	195	168			
		NLX13KK	105H6983	98	133	223	282	350			174		1.36	231	199			
		NLX15KK	105H6981	110	147	249	317	397			193		1.34	257	221			
		NLX8.0KK.2	105H6010	52	73	130	167	210			99		1.47***	133	115			
		NLX8.8KK.2	105H6011	62	85	147	187	234			113		1.49***	151	130			
		NLX10KK.2	105H6101	75	101	171	217	271			133		1.49***	178	153			
		NLX11KK.2	105H6971	86	115	192	242	301			150		1.49***	200	172			

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Description

## Product details

Gross weight 12.47 kg

Net weight 12.47 kg

Gross weight 12.47 kg

Net weight 12.47 kg

Application energy level

Applications

Auxiliary winding resistance (start winding) for single-phase compressors alt [Ohm]

Base plate type

High Energy-optimized  
LBP

31.8 Ohm

EU small

Brand technique	Reciprocating compressor
Capacity control	Fixed speed
Colour	Black
Compressor power supply [V/Ph/Hz]	220-240/1/50
Configuration code	Single
Cut in current LST [A]	6.4 A
Description	NLX11KK.2
Discharge connection angle [°]	21 °
Discharge connection comments	Al-cap
Discharge connection diameter [mm]	5 mm
Discharge connection material	Cu-plated steel
Economizer	No
Free gas volume [cm <sup>3</sup> ]	2360 cm <sup>3</sup>
Frequency [Hz]	50
Height from baseplate [mm]	197 mm
High value of nominal voltage at 50Hz [V]	240 V
High value of voltage range at 50Hz [V]	255 V
Length [mm]	252 mm
Liquid injection	No
Low value of nominal voltage at 50Hz [V]	220 V
Low value of voltage range at 50Hz [V]	187 V
LRA LST [A]	3.5 A
Main winding resistance for single-phase compressors [Ohm]	18.5 Ohm
Model number	NLX11KK.2
Motor type	RSCR
No. of phases (compressor)	1
Oil quantity [cm <sup>3</sup> ]	270 cm <sup>3</sup>
Oil type	POE
Packing format	Industrial pack
Packing quantity	80
Process connection angle [°]	25 °
Process connection comments	Al-cap
Process connection diameter [mm]	6.2 mm
Process connection material	Cu-plated steel
Refrigerant	R600a
Refrigerant charge [kg] [Max]	0.15 kg
RLA	0.70 A
Rotational speed at 50Hz [rpm]	3000 rpm
Run capacitor capacitance	2 µF
Segment usage	Refrigeration LT
Speed Platform	Fixed-speed
Suction connection angle [°]	2 °
Suction connection comments	Al-cap

<b>Suction connection diameter [mm]</b>	6.2 mm
<b>Suction connection material</b>	Cu-plated steel
<b>Swept volume [cm<sup>3</sup>]</b>	11.15 cm <sup>3</sup>
<b>Technology</b>	Reciprocating
<b>Total height [mm]</b>	203 mm
<b>Type</b>	NL
<b>Type designation</b>	Compressor
<b>Voltage 50Hz [V]</b>	220 V
<b>Voltage 50Hz [V] [Max]</b>	240 V
<b>Width [mm]</b>	166 mm
<b>Winding temperature short term [°C] [Max]</b>	110 °C
<b>Winding temperature stat [°C] [Max]</b>	95 °C
<b>Application energy level</b>	High Energy-optimized
<b>Applications</b>	LBP
<b>Auxiliary winding resistance (start winding) for single-phase compressors alt [Ohm]</b>	31.8 Ohm
<b>Base plate type</b>	EU small
<b>Brand technique</b>	Reciprocating compressor
<b>Capacity control</b>	Fixed speed
<b>Colour</b>	Black
<b>Compressor power supply [V/Ph/Hz]</b>	220-240/1/50
<b>Configuration code</b>	Single
<b>Cut in current LST [A]</b>	6.4 A
<b>Description</b>	NLX11KK.2
<b>Discharge connection angle [°]</b>	21 °
<b>Discharge connection comments</b>	Al-cap
<b>Discharge connection diameter [mm]</b>	5 mm
<b>Discharge connection material</b>	Cu-plated steel
<b>Economizer</b>	No
<b>Free gas volume [cm<sup>3</sup>]</b>	2360 cm <sup>3</sup>
<b>Frequency [Hz]</b>	50
<b>Height from baseplate [mm]</b>	197 mm
<b>High value of nominal voltage at 50Hz [V]</b>	240 V
<b>High value of voltage range at 50Hz [V]</b>	255 V
<b>Length [mm]</b>	252 mm
<b>Liquid injection</b>	No
<b>Low value of nominal voltage at 50Hz [V]</b>	220 V
<b>Low value of voltage range at 50Hz [V]</b>	187 V
<b>LRA LST [A]</b>	3.5 A
<b>Main winding resistance for single-phase compressors [Ohm]</b>	18.5 Ohm
<b>Model number</b>	NLX11KK.2
<b>Motor type</b>	RSCR
<b>No. of phases (compressor)</b>	1

<b>Oil quantity [cm3]</b>	270 cm3
<b>Oil type</b>	P0E
<b>Packing format</b>	Industrial pack
<b>Packing quantity</b>	80
<b>Process connection angle [Å°]</b>	25 Å°
<b>Process connection comments</b>	Al-cap
<b>Process connection diameter [mm]</b>	6.2 mm
<b>Process connection material</b>	Cu-plated steel
<b>Refrigerant</b>	R600a
<b>Refrigerant charge [kg] [Max]</b>	0.15 kg
<b>RLA</b>	0.70 A
<b>Rotational speed at 50Hz [rpm]</b>	3000 rpm
<b>Run capacitor capacitance</b>	2 ÅµF
<b>Segment usage</b>	Refrigeration LT
<b>Speed Platform</b>	Fixed-speed
<b>Suction connection angle [Å°]</b>	2 Å°
<b>Suction connection comments</b>	Al-cap
<b>Suction connection diameter [mm]</b>	6.2 mm
<b>Suction connection material</b>	Cu-plated steel
<b>Swept volume [cm3]</b>	11.15 cm3
<b>Technology</b>	Reciprocating
<b>Total height [mm]</b>	203 mm
<b>Type</b>	NL
<b>Type designation</b>	Compressor
<b>Voltage 50Hz [V]</b>	220 V
<b>Voltage 50Hz [V] [Max]</b>	240 V
<b>Width [mm]</b>	166 mm
<b>Winding temperature short term [Å°C] [Max]</b>	110 Å°C
<b>Winding temperature stat [Å°C] [Max]</b>	95 Å°C

Refrigerant: R600a, Segment usage: Refrigeration LT, Compressor power supply [V/Ph/Hz]: 220-240/1/50 [Mbsm\\_dot\\_pro\\_private\\_PDF\\_nlx11kk.2](#)



			-33	-30	-20	-15	-10	-5	0	5	(W)	(NW)	(NE)	(E)	(SE)	(SW)	(S)	
Energy optimized	1	TL23K	102H0300		38	52	68	87	109			27		0.68	38	32		
		TL2400K.3	102H0430	19	29	37	75	96				42	0.90		57	49	1.18	
		TL2500K.3	102H0530	28	40	75	94	119				55	1.00		74	65	1.30	
		TL2600K.3	102H0630	36	50	89	114	144				68	1.02		91	79	1.32	
		TL2700K.3	102H0730	45	61	105	134	168				81	1.02		108	94	1.31	
		TL2800K.3	102H0830	53	71	122	155	194				94	1.02	1.07	126	108	1.32	1.34
		TL2900K.3	102H0930	62	83	143	181	228				110	1.03	1.08	147	126	1.33	1.34
		TL3000K.3	102H1030									130	1.04		172	148	1.35	1.35
		TL3100K.4	102H0800	62	84	145	179	223				110	1.18	1.22	147	127	1.31	1.30
		TL3200K.4	102H0827	74	98	164	207	257				128	1.19	1.23	170	151	1.31	1.30
		TL3300K.4	102H0952	82	108	184	232	290				143	1.19	1.22	191	165	1.32	1.31
		TL3400K.4	102H0959	95	127	217	274	340				170	1.18	1.23	226	194	1.30	1.29
TL3500K.4	102H0968	110	146	243	307	382				190	1.20	1.25	253	213	1.33	1.32		
High Energy optimized	1	TL3600K.3	102H0442	19	29	37	74	95			42	0.96	0.99	57	49	1.20	1.08	
		TL3700K.3	102H0542	28	40	75	94	119				55	1.04	1.06	74	65	1.35	1.36
		TL3800K.3	102H0642	36	51	89	114	144				68	1.03	1.06	91	79	1.33	1.35
		TL3900K.3	102H0742	46	62	106	135	170				82	1.10	1.14	110	94	1.42	1.22
		TL3900K.3	102H0842	53	71	122	155	194				94	1.09	1.14	126	108	1.41	1.22
		TL3900K.3	102H0942	65	86	144	182	227				112	1.12	1.16	149	126	1.44	1.24
		TL4000K.3	102H0447	21	32	59	76	95				45	1.15***		60	52		
		TL4000K.3	102H0547	36	52	90	116	146				57	1.24***		76	65		
		TL4000K.3	102H0647	37	52	91	115	143				70	1.28***		85	80		
		TL4000K.3	102H0747	46	63	106	133	165				83	1.30***		110	95		
		TL4000K.3	102H0847	55	75	125	157	195				98	1.32***		130	112		
		TL4000K.3	102H0947	65	88	146	184	227				110	1.31***		152	131		
	TL4100K	102H0514	60	83	144	182	227				111	1.25		140	127			
	TL4100K	102H0671	74	100	169	215	269				131	1.36		174	150			
	TL4100K	102H0804	84	112	189	240	300				147	1.36		195	168			
	TL4100K	102H0983	98	133	223	282	350				174	1.36		231	199			
	TL4100K	102H0981	110	147	249	317	397				193	1.34		257	221			
	TL4200K.2	102H0010	52	73	130	167	210				99	1.40***		133	115			
	TL4200K.2	102H0011	62	85	147	187	234				113	1.49***		151	130			
	TL4200K.2	102H0101	75	101	175	217	271				133	1.49***		178	153			
	TL4200K.2	102H0071	86	115	192	242	301				150	1.49***		200	172			

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