



Technical Data and Dimension Drawings

MOVIDRIVE® MDX60/61B...-5_3 (AC 400/500 V units)

Size 2S, 2 (AC 400/500 V units)

MOVIDRIVE® MDX61B		0055-5A3-4-0_	0075-5A3-4-0_	0110-5A3-4-0_
Size		2S		2
INPUT				
Supply voltage	U_{mains}	$3 \times \text{AC } 380 \text{ V} - 10 \% \dots 3 \times \text{AC } 500 \text{ V} + 10 \%$		
Supply frequency	f_{mains}	50 Hz ... 60 Hz $\pm 5 \%$		
Rated supply current ¹⁾ (at $V_{\text{mains}} = 3 \times \text{AC } 400 \text{ V}$)	I_{mains} 100 % 125 %	AC 11.3 A AC 14.1 A	AC 14.4 A AC 18.0 A	AC 21.6 A AC 27.0 A
OUTPUT				
Apparent output power ²⁾ (at $V_{\text{mains}} = 3 \times \text{AC } 380 \dots 500 \text{ V}$)	S_N	8.7 kVA	11.2 kVA	16.8 kVA
Rated output current ¹⁾ (at $V_{\text{mains}} = 3 \times \text{AC } 400 \text{ V}$)	I_N	AC 12.5 A	AC 16 A	AC 24 A
Continuous output current (= 125 % I_N) I_D (at $U_{\text{mains}} = 3 \times \text{AC } 400 \text{ V}$ with $f_{\text{PWM}} = 4 \text{ kHz}$)		AC 15.6 A	AC 20 A	AC 30 A
Continuous output current (= 100 % I_N) I_D (at $U_{\text{mains}} = 3 \times \text{AC } 400 \text{ V}$ with $f_{\text{PWM}} = 8 \text{ kHz}$)		AC 12.5 A	AC 16 A	AC 24 A
Current limitation	I_{max}	Motor and regenerative 150 % I_N , duration depending on capacity utilization		
Internal current limitation		$I_{\text{max}} = 0 \dots 150 \%$ adjustable		
Minimum permitted braking resistor value (4Q operation)	R_{BRmin}	47 Ω		22 Ω
Output voltage	U_A	Max. V_{mains}		
PWM frequency	f_{PWM}	Can be set: 4/8/12/16 kHz		
Speed range / resolution	$n_A / \Delta n_A$	$-6000 \dots 0 \dots +6000 \text{ min}^{-1} / 0.2 \text{ min}^{-1}$ across the entire range		
GENERAL INFORMATION				
Power loss at S_N ²⁾	$P_{V\text{max}}$	220 W	290 W	400 W
Cooling air consumption		80 m ³ /h		
Weight		6.6 kg		
Dimensions	$W \times H \times D$	105 \times 335 \times 294 mm		135 \times 315 \times 285 mm

1) The system and output currents must be reduced by 20 % from the nominal values for $V_{\text{mains}} = 3 \times \text{AC } 500 \text{ V}$.

2) The performance data applies to $f_{\text{PWM}} = 4 \text{ kHz}$.

MDX61B Standard version		0055-5A3-4-00	0075-5A3-4-00	0110-5A3-4-00
Part number		827 961 6	827 962 4	827 963 2
MDX61B Application version		0055-5A3-4-0T	0075-5A3-4-0T	0110-5A3-4-0T
Part number		827 979 9	827 980 2	827 981 0
Constant load Recommended motor power	P_{Mot}	5.5 kW	7.5 kW	11 kW
Variable torque load or constant load without overload Recommended motor power	P_{Mot}	7.5 kW	11 kW	15 kW
Recommended motor power		→ MOVIDRIVE® B system manual, section 'Motor Selection'		