Homologation

Document no: 001/2024

CellClutch

Cordless Assembly Tools

Type: **Cleco - CLBA203**

Order no.: **CLBA203**

This homologation also applies to type(s):

Cleco - CLBA203-1
Cleco - CLBAW203-00
Cleco - CLBAW203-001
Cleco - CLBAW203-CN
Cleco - CLBAW203-CN1
Cleco - CLBAW203-EU
Cleco - CLBAW203-EU1
Cleco - CLBAW203-NA
Cleco - CLBAW203-NA1

Cleco - CLBA203

Right Angle Tool

Order no.: CLBA203

Included	***Type***	***Order no.***
	Cleco - CLBA203-1	CLBA203-1
	Cleco - CLBAW203-00	CLBAW203-00
	Cleco - CLBAW203-001	CLBAW203-001
	Cleco - CLBAW203-CN	CLBAW203-CN
	Cleco - CLBAW203-CN1	CLBAW203-CN1
	Cleco - CLBAW203-EU	CLBAW203-EU
	Cleco - CLBAW203-EU1	CLBAW203-EU1
	Cleco - CLBAW203-NA	CLBAW203-NA
	Cleco - CLBAW203-NA1	CLBAW203-NA1

Machine type:	Cordless Assembly Tools
Torque range:	8,3 Nm to 21 Nm
Max speed:	360 rpm
Certified serial nos.:	ILJ1000, ILJ1001, ILJ1002

Contents:

Overview C_m/C_{mk} values
General specifications tool and controller
Power Tools Sales & Service Centers
Machine capability study and graphs
Measurement capability test

Apex Tool Group

Cordless Assembly Tools

C_m / C_{mk} values achieved

According VDI/VDE 2647 February 2013

Accuracy class: 10 %

Tool model	Serial nos.	Test data	30 %		80 %		100 %	
			30° ±5°	360° ±15°	30° ±5°	360° ±15°	30° ±5°	360° ±15°
CLBA203		Break time	4 s	4 s	4 s	4 s	4 s	4 s
		Test torque	**12,11 Nm**		**18,46 Nm**		**21,00 Nm**	
		Speed in 1st stage	360 rpm	360 rpm	360 rpm	360 rpm	360 rpm	360 rpm
		Speed in last stage	---	---	---	---	---	---
		Angle start torque	6,06 Nm		9,23 Nm		10,50 Nm	
	ILJ1000	C_m	2,38	3,89	2,49	4,30	2,70	4,17
		C_{mk}	2,31	2,20	2,26	2,39	2,58	2,59
	ILJ1001	C_m	2,24	3,94	2,49	4,95	2,99	4,30
		C_{mk}	1,99	2,64	2,16	3,89	2,77	3,27
	ILJ1002	C_m	4,86	4,52	4,35	7,91	3,54	5,52
		C_{mk}	4,34	2,28	3,26	5,68	3,08	4,35
Min. C_m/C_{mk}		C_m	2,24	3,89	2,49	4,30	2,70	4,17
		C_{mk}	1,99	2,20	2,16	2,39	2,58	2,59

	Target:	≥ 1.67	**Rating**
Capability index	C_m	**2,24**	**OK**
	C_{mk}	**1,99**	**OK**

Annex 1

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Date: 20.02.2024

Test sheet no. 1a

General specifications

Manufacturer:	Apex Tool Group	**Assembly tool type**	Cordless Assembly Tools
Tool model:	CLBA203	**Serial numbers:**	ILJ1000, ILJ1001, ILJ1002
Torque range:	8,3 Nm to 21 Nm		

Rated capacity:		**2000 mAh**	**5000 mAh**
Battery voltage:		18 Volt	
Weight (without battery):		1,75 kg	
Weight (with battery):		2,18 kg	2,48 kg
Maximum speed at the first stage:		360 rpm	
Maximum speed at the final stage:		360 rpm	
Minimum speed at the final stage:		36 rpm	
Sound pressure level at maximum speed: (acc. to DIN EN 62841-1:2016-07, DIN EN 62841-2-2:2015-05)		70,3 dB(A)	
Number of duty cycles with a battery at 100% torque	Soft joint (L):	234 runs	626 runs
	Hard joint (H):	474 runs	1247 runs
Temperature of electrical tools: (After 100 measurements with soft jont at 80% torque)		start	end
	at the output drive:	22 °C	25 °C
	on the electric motor:	22 °C	30 °C
	on the handle:	22 °C	31 °C
Output type:		Square drive	
Output drive size:		3/8 inches	

POWER TOOLS SALES & SERVICE CENTERS

Please note that all locations may not service all products.
Contact the nearest Cleco® Sales & Service Center for the appropriate facility to handle your service requirements.

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