

# Lightweight Joint Module PRO-3 Series Quick Selection Table

\*Communication Bus: CAN and EtherCAT communication

Product Series	Joint Model	Gear Ratio	Start/Stop Peak Torque (N.m)	Max allowable average load torque (N.m)	Rated torque (N.m) at 2000rpm (/gear ratio)	Rated speed (rpm) (with 1/2 rated torque)	Length (mm)	Through Hole (mm)	Mass (Kg)
	(module outer diameter marked in red)								
PRO Series	CRA-RI30-40-PRO-3-XXX-2E-EC	51/101	3.3/4.8	2.3/3.3	1.8/2.4	90/45	60±0.5	6	0.21
	CRA-RI30-40-PRO-3-XXX-B-2E-EC	51/101	3.3/4.8	2.3/3.3	1.8/2.4	90/45	75.5±0.5	6	0.27
	CRA-RI40-52-PRO-3-XXX-2E-EC	51/101	8.3/11	5.5/8.9	3.5/5	80/40	64±0.5	10.5	0.4
	CRA-RI40-52-PRO-3-XXX-B-2E-EC	51/101	8.3/11	5.5/8.9	3.5/5	80/40	81.5±0.5	10.5	0.46
	CRA-RI50-70-PRO-3-XXX-2E-EC	51/81/101	23/29/34	8.6/13.5/13.5	6.6/9.6/9.6	75/46/37	66.5±0.5	13	0.69
	CRA-RI50-70-PRO-3-XXX-B-2E-EC	51/81/101	23/29/34	8.6/13.5/13.5	6.6/9.6/9.6	75/46/37	82±0.5	13	0.81
	CRA-RI60-80-PRO-3-XXX-2E-EC	51/81/101/121	42/53/66/66	32/33/49/49	19.8/27.5/30/30	68/43/34/24	72±0.5	15	1.12
	CRA-RI60-80-PRO-3-XXX-B-2E-EC	51/81/101/121	42/53/66/66	32/33/49/49	19.8/27.5/30/30	68/43/34/24	88±0.5	15	1.32
	CRA-RI70-90-PRO-3-XXX-2E-EC	51/81/101/121	69/91/102/108	42/58/61/61	32/42/50/50	61/38/30/25	73.5±0.5	15	1.3
	CRA-RI70-90-PRO-3-XXX-B-2E-EC	51/81/101/121	69/91/102/108	42/58/61/61	32/42/50/50	61/38/30/25	89.5±0.5	15	1.5
	CRA-RI80-110-PRO-3-XXX-2E-EC	51/81/101/121/161	121/169/194/207/217	68.5/107/133/133/133	48/78/84/84/84	54/35/27/23/17	86±0.5	27	2.2
	CRA-RI80-110-PRO-3-XXX-B-2E-EC	51/81/101/121/161	121/169/194/207/217	68.5/107/133/133/133	48/78/84/84/84	54/35/27/23/17	104±0.5	27	2.5
	CRA-RI100-142-PRO-3-XXX-2E-EC	51/81/101/121/161	267/376/411/436/459	133/206/267/267/267	94/146/169/169/169	44/29/22/18/12	103.5±0.5	32	3.95
	CRA-RI100-142-PRO-3-XXX-B-2E-EC	51/81/101/121/161	267/376/411/436/459	133/206/267/267/267	94/146/169/169/169	44/29/22/18/12	126.5±0.5	32	4.6
	CRA-RI110-170-PRO-3-XXX-2E-EC	51/81/101/121/161	497/641/702/762/800	242/351/460/557/557	169/255/328/363/363	22/15/12/10/7	124.5±0.5	40	6.95
	CRA-RI110-170-PRO-3-XXX-B-2E-EC	51/81/101/121/161	497/641/702/762/800	242/351/460/557/557	169/255/328/363/363	22/15/12/10/7	156.5±0.5	40	7.65
PRO-S Series	CRA-RI50-60-PRO-3-XXX-2E-EC	51/81/101	23/29/34	8.6/13.5/13.5	6.6/9.6/9.6	75/46/37	66.5±0.5	13	0.48
	CRA-RI50-60-PRO-3-XXX-B-2E-EC	51/81/101	23/29/34	8.6/13.5/13.5	6.6/9.6/9.6	75/46/37	82±0.5	13	0.6
	CRA-RI60-70-PRO-3-XXX-2E-EC	51/81/101/121	42/53/66/66	32/33/49/49	19.8/27.5/30/30	68/43/34/24	73.5±0.5	15	0.8
	CRA-RI60-70-PRO-3-XXX-B-2E-EC	51/81/101/121	42/53/66/66	32/33/49/49	19.8/27.5/30/30	68/43/34/24	89.5±0.5	15	0.95
	CRA-RI70-80-PRO-3-XXX-2E-EC	51/81/101/121	69/91/102/108	42/58/61/61	32/42/50/50	61/38/30/25	73±0.5	15	1.03
	CRA-RI70-80-PRO-3-XXX-B-2E-EC	51/81/101/121	69/91/102/108	42/58/61/61	32/42/50/50	61/38/30/25	89±0.5	15	1.21
	CRA-RI80-97-PRO-3-XXX-2E-EC	51/81/101/121/161	121/169/194/207/217	68.5/107/133/133/133	48/78/84/84/84	54/35/27/23/17	86±0.5	27	1.55
	CRA-RI80-97-PRO-3-XXX-B-2E-EC	51/81/101/121/161	121/169/194/207/217	68.5/107/133/133/133	48/78/84/84/84	54/35/27/23/17	104±0.5	27	1.85
	CRA-RI100-120-PRO-3-XXX-2E-EC	51/81/101/121/161	267/376/411/436/459	133/206/267/267/267	94/146/169/169/169	44/29/22/18/12	103.5±0.5	32	2.8
	CRA-RI100-120-PRO-3-XXX-B-2E-EC	51/81/101/121/161	267/376/411/436/459	133/206/267/267/267	94/146/169/169/169	44/29/22/18/12	126.5±0.5	32	3.2

\*Data for reference only